

**J. L.B. SMITH INSTITUTE OF ICHTHYOLOGY**  
**GRAHAMSTOWN, SOUTH AFRICA**



**ICHTHYOLOGICAL BULLETIN**

---

**NUMBER 68**

**JUNE 2000**

---

**AN ANNOTATED CHECKLIST OF THE SPECIES OF THE LABROID FISH**  
**FAMILIES LABRIDAE AND SCARIDAE**

by

Paolo Parenti and John E. Randall

## ABSTRACT

Parenti, Paolo and John E. Randall. 2000. An annotated checklist of the species of the Labroid fish families Labridae and Scaridae. *Ichthyological Bulletin of the J.L.B. Smith Institute of Ichthyology*, No. 68, 97 pages.

An annotated checklist of the species of the fish families Labridae and Scaridae is presented; 541 valid species are recognized, including 68 genera and 453 species of labrids and 10 genera and 88 species of scarids. Thirty undescribed species of wrasses and two undescribed parrotfish species are also included. A list of nominal species is given, with their present assignments; nominal species of uncertain status are placed as *incertae sedis* and listed separately. A list of *nomina nuda* is also provided. The valid genera and species are listed alphabetically, with their synonyms and distributions. Examination of the original descriptions and type material (when extant) of previously unplaced nominal species of labroid fishes led to identification of 69 new synonyms. The generic names *Artisia* de Beaufort, 1939 and *Emmeekia* Jordan & Evermann, 1896 are here recognized as new synonyms of *Halichoeres* Rüppell, 1835. For the Labridae, 65 new synonyms of valid species are listed. *Labrus psittaculus* Richardson, 1840, a valid species of *Pseudolabrus*, is a primary homonym of *Labrus psittaculus* Lacepède, 1801; the next available name for this species is *Labrichthys rubicunda* Macleay, 1881 and the new combination *Pseudolabrus rubicundus* is proposed. The following new combinations are included: *Pseudojulis inornatus* Gilbert, 1890 is a valid species of *Pseudojuloides*; *Xyrichtys perlas* Wellington et al., 1994 is a valid species of *Novaculichthys*. For Scaridae, *Sparus abildgaardi* Bloch, 1791 is a senior synonym of *Sparisoma chrysopteron* (Bloch & Schneider, 1801), but a request of the International Commission has been made to reject *abildgaardi* in order to conserve *S. chrysopteron*; and *Scarus visayanus* Herre, 1933 is a new synonym of *Scarus tricolor* Bleeker, 1847. *Pseudoscarus microcheilos* Bleeker, 1861 is a synonym of *Chlorurus strongylocephalus* (Bleeker, 1854).

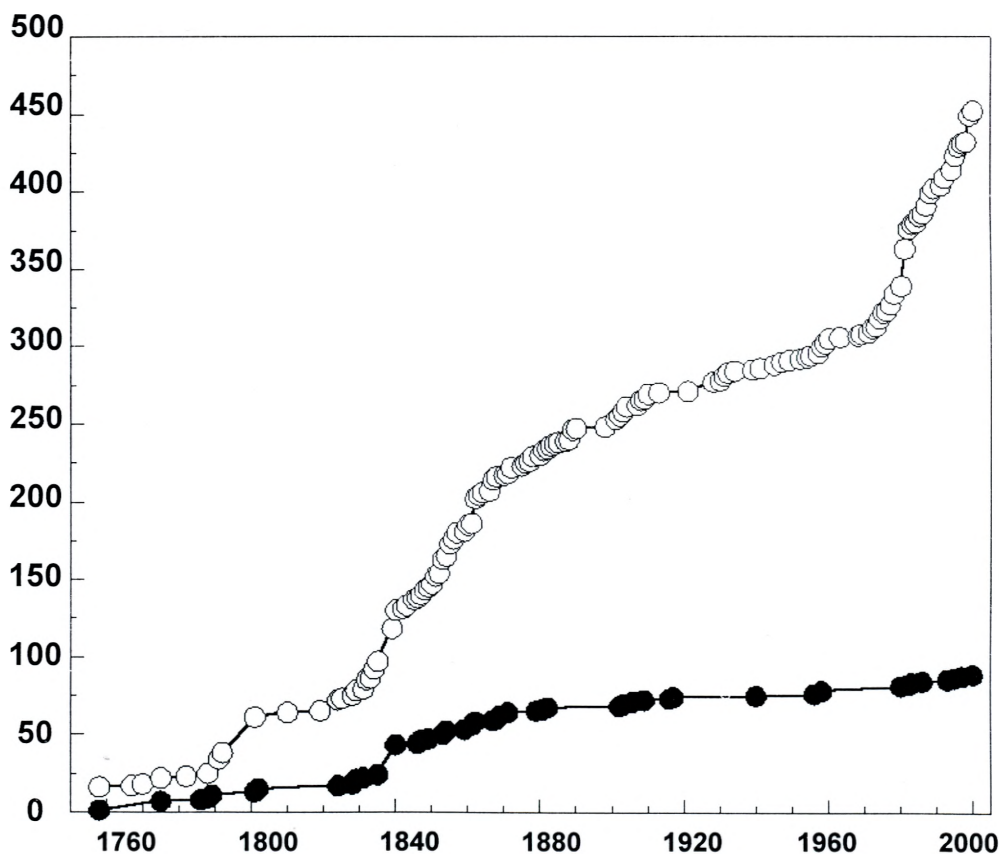


Figure 1. Cumulative number of species of Labridae (○) and Scaridae (●) described since the publication of Linnaeus' (1758) *Systema Naturae*.



# AN ANNOTATED CHECKLIST OF THE SPECIES OF THE LABROID FISH FAMILIES LABRIDAE AND SCARIDAE

by

Paolo Parenti<sup>1</sup> and John E. Randall<sup>2</sup>

## INTRODUCTION

Checklists of species are invaluable tools in the fields of natural science. They serve to consolidate our level of knowledge and at the same time reveal areas in need of further investigation. They may take the form of listing species for a geographical area or a compilation of the species of a taxonomic unit such as a family.

Among the vertebrates, fishes represent a class whose genera and species continue to increase every year. Figure 1 shows the increase in the number of nominal species of Labridae since our system of classification began with Linnaeus (1758). Nelson (1994) estimated that the number of described fish species is approaching 70-80% of the total number expected in the world. The sudden rise in the discovery of new species of fishes beginning about 1960 is correlated principally with the widespread use of scuba gear and ichthyocides which enabled ichthyologists to collect specimens that are not readily taken by ordinary fishing methods. Also of importance has been the greater emphasis among ichthyologists in recent years to revise taxa, thus revealing undescribed species long residing unidentified or misidentified on museum shelves.

The valid genera and species in the following checklist of labroid fishes are arranged alphabetically. The family Odacidae is here omitted, as it was recently revised by Gomon and Paxton (1986). Although it is widely accepted that the Labridae, Scaridae and Odacidae represent a monophyletic assemblage, inclusion of these three families into a single family is still a topic of debate. It was first suggested by Gomon and Russell (1981), then proposed by Kaufman and Liem (1982) and followed by some authors (Stiassny & Jensen, 1987; Webb, 1990). Although the Labridae may represent a paraphyletic assemblage (Bellwood, 1994; Gomon, 1997), the conventional family classification is here adopted. Attempts to classify the Labridae and Scaridae into phylogenetically sound subfamilies and tribes have not been satisfactory. Monophyly has not been established for most of these taxa (Westneat, 1993; Nelson, 1994; Gomon, 1997).

We present a brief introduction of general morphology and habitat for each family of labroid fishes. Each valid genus and species is accompanied by its synonyms. Details of subsequent designation of type species for the genera are given by Eschmeyer *et al.* (1997). The author Valenciennes in Cuvier & Valenciennes, 1839 and 1840 is abbreviated as Val., 1839 or 1840. Misidentifications are included only when a later author, upon noting that a misidentification is a new species, named it for the author who made the misidentification. We have excluded the species named by Curtiss, who privately published in 1938 *A Short Zoology of Tahiti*, in which 116 new species of fishes were described. Fowler (1949: 127) referred to Curtiss as an untrained novice and placed those Curtiss names that he could recognize in synonymy. He added, "Such a proposal as this author seeks to impose on taxonomic ichthyology hardly invites consideration. However, I have given his references only with the thought of their ultimate disposal rather than they should ever arise to further confuse the nomenclature".

We also summarize the distribution of each species. Definitions are needed for the general terms used in these summaries. "Indo-Pacific" refers to the tropical and subtropical regions of the Indian Ocean and western and central Pacific. For the present checklist, this means that a fish is widespread throughout the region from the east coast of Africa to at least the islands of French Polynesia. Although the Red Sea, Hawaiian Islands, Pitcairn Group, and even remote Easter Island are part of the Indo-Pacific region, they are mentioned when included in the species distribution. Our use of "western Pacific" includes a broad distribution from southern Japan to at least the Great Barrier Reef or coast of Queensland. "Western Indian Ocean" implies a distribution along the coast of Africa from Somalia to Mozambique or South Africa, as well as the islands west of the southern tip of India. "East Indies" refers to the islands of New Guinea, Borneo, Indonesia, and the Philippines (and generally to the Solomon Islands to the east and the Nicobars and Andamans to the northwest, though these areas have not been well collected). If a species' distribution extends from the East Indies to adjacent mainland areas of southeast Asia or northern Australia, the term "Indo-Malayan region" is employed. For many species, these summaries are approximations, as our knowledge of their distributions is still fragmentary.

<sup>1</sup> Dipartimento di Scienze dell' Ambiente e del Territorio  
Università degli Studi di Milano-Bicocca, P. zza della Scienza  
1, 20126 Milano, Italy. E-mail: Paolo.Parenti@unimib.it

<sup>2</sup> Bishop Museum, 1525 Bernice Street, Honolulu, HI 96817,  
U.S.A.



**Family LABRIDAE Cuvier, 1816**  
(Wrasses)

Wrasses occur worldwide in tropical, subtropical, and temperate seas. Most species (82 %) are found in the Indo-Pacific region, with Australia having the largest labrid fish fauna (about 33% of the species and 70% of the genera). The species of Labridae vary greatly in shape, from slender to moderately deep-bodied, from long-snouted to short-snouted, and with caudal fins from rounded to lunate.

Characters that define the family are as follows: Mouth usually terminal, the jaws protractile, the maxilla not exposed when mouth is closed. Teeth in jaws usually conical and separate, those at front generally canines that often protrude; no teeth on roof of mouth except a few in some species of *Bodianus*; pharyngeal bones united, typically with strong nodular to molariform teeth. Lips often thick. Scales cycloid, usually 24-80 in longitudinal series (species of *Hologymnosus* with more than 100 scale series); head never fully scaled; lateral line continuous or interrupted. Vertebrae usually 23-42. Dorsal fin continuous, without a notch between spinous and soft portions (though soft-rayed part may be higher), with 8-21 spines (usually fewer than 15) and 6-21 soft rays; anal fin with 2-6 spines (usually 3) and 7-18 rays. The species of Labridae vary greatly in size from 5 to 230 cm total length.

Wrasses are diurnal, and although most species bury in sand at night to sleep, many wrasses merely take shelter at night. Most species occur on shallow coral reefs or rocky bottom, though some species of *Bodianus*, *Polylepion* and *Decodon* are found in depths of 200 m or more. Razorfishes (*Xyrichtys* and *Cymolutes*) occur over open stretches of sand into which they dive with the approach of danger.

All labrids are carnivorous; most feed mainly on a variety of small and large invertebrates, especially hard-shelled molluscs and crustaceans, which they crush with their pharyngeal teeth. A few species prey primarily upon small fishes, while others such as species of *Cirrhilabrus*, *Paracheilinus* and *Pseudocoris* feed on zooplankton. The species of *Labroides* and the young of some others feed on crustacean ectoparasites and mucus of fishes. Adults of the species of *Labrichthys*, *Labropsis*, and *Diproctacanthus* feed mainly on coral polyps.

The colour pattern may differ dramatically from juvenile to adult and with sex. The reproductive biology involves sex reversal: adults in the initial stage are usually female and generally less colourful. Some species have both females and males in the drab initial phase. Many terminal males are territorial and maintain an harem of females with which they spawn individually. The majority of wrasses have pelagic eggs, but some temperate species build nests of seaweed.

**TAXONOMY**

The Labridae is a very large family, third in number of species after Gobiidae and Serranidae. Nelson (1994) estimated the number of valid labrid species as 500 in about 60 genera. Our checklist includes 68 genera and 452 valid species (Fig. 1). An additional 29 undescribed species are also included by generic name. Doubtful genera and species are listed separately. Corrections are expected since some large genera such as *Coris* (under study by the second author), *Halichoeres* and *Xyrichtys* have not been revised. Examination of the original descriptions and type material of previously unplaced nominal species of labrid fishes led to identification of 65 new synonyms.

Although Russell (1980) identified six tribes, Hypsigenyini, Labrini, Cheilini, Labrichthyini, Julidini and Novaculini, only Cheilini (Westneat, 1993) and Hypsigenyini (Gomon, 1997) have been recognized as monophyletic. Cheilini includes ten genera grouped in two lineages: the genera *Cheilinus*, *Doratonotus*, *Epibulus*, *Oxycheilinus* and *Wetmorella* form the "cheiline" lineage, and the genera *Cirrhilabrus*, *Paracheilinus*, *Pseudocheilinus*, *Pseudocheilinos* and *Pteragogus* form the "pseudocheiline" lineage. Randall (1999a) recognises the two cheiline lineages as two distinct tribes: Cheilini and Cirrhilabrini, respectively. The Tribe Cirrhilabrini is diagnosed and expanded to include the genus *Conniella*.

The tribe Hypsigenyini comprises at least eight genera: *Achoerodus*, *Bodianus*, *Choerodon*, *Clepticus*, *Decodon*, *Polylepion*, *Semicossyphus* and *Xiphocheilus* (Gomon, 1997). The position of *Anchichoerops* within the Hypsigenyini is regarded as provisional. Finally, monophyly has been demonstrated for the pseudolabrids, a group of six labrid genera (*Austrolabrus*, *Dotalabrus*, *Eupetrichthys*, *Notolabrus*, *Pictilabrus* and *Pseudolabrus*) conventionally placed within the Julidini (Russell, 1988).

**Genus *Acantholabrus* Valenciennes**

*Acantholabrus* Val., 1839: 242 (type-species, *Lutjanus exoletus* (not of Linnaeus) Risso, (= *Lutjanus palloni* Risso, 1810) by subsequent designation).

One species (Bauchot & Quignard, 1973).

***Acantholabrus palloni* (Risso)**

*Lutjanus palloni* Risso, 1810: 263 (Nice, France).

*Labrus pallidus* Nardo, 1824b: 252 (Adriatic Sea).

*Acantholabrus imbricatus* Lowe, 1839: 86 (Madeira).

*Acantholabrus couchii* Val., 1839: 248 (Cornwall, England).

REMARKS: there is no type material for *Labrus pallidus* Nardo; however the species is described with enough details to identify it as *Acantholabrus palloni*.

DISTRIBUTION: Norway south to Cape Lopez, Gabon; Madeira, Azores, Canary Ids, and Mediterranean.



## Genus *Achoerodus* Gill

*Achoerodus* Gill, 1863: 222 (type-species, *Labrus gouldii* Richardson, by original designation).

*Heterochoerops* Steindachner, 1866d: 52 (type-species, *H. viridis* Steindachner, by monotypy).

*Platychoerops* Klunzinger, 1880: 399 (type-species, *P. muelleri* Klunzinger, by original designation, preoccupied by Charlesworth, 1855 in Mammalia [not replaced; reported as synonym by McCulloch, 1929]).

Two species (Gomon, 1997); southern Australia.

### *Achoerodus gouldii* (Richardson)

*Labrus gouldii* Richardson, 1843b: 353 (Western Australia).

*Trochocopus unicolor* Günther, 1876: 398 (Sydney, New South Wales, Australia).

*Platychoerops muelleri* Klunzinger, 1880: 399 [75], pl. 8, fig. 2 (King George Sound, Western Australia).

*Platychoerops badius* Ogilby, 1893: 134 (Port Jackson, New South Wales, Australia).

DISTRIBUTION: South Australia to Lancelin, Western Australia.

### *Achoerodus viridis* (Steindachner)

*Heterochoerops viridis* Steindachner, 1866d: 52 (Port Jackson, New South Wales, Australia).

DISTRIBUTION: Queensland to Victoria.

## Genus *Ammolabrus* Randall & Carlson

*Ammolabrus* Randall & Carlson, 1997: 30 (type-species, *A. dicrus* Randall & Carlson, by original designation).

One species.

### *Ammolabrus dicrus* Randall & Carlson

*Ammolabrus dicrus* Randall & Carlson, 1997: 32 (Oahu, Makaha, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

## Genus *Anampses* Quoy & Gaimard

*Anampses* Quoy & Gaimard, 1824: 276 (type-species, *A. cuvier* Quoy & Gaimard, by monotypy).

*Pseudanampses*, Bleeker, 1862d: 101 (type-species, *Anampses pterophthalmus* Bleeker, by subsequent designation).

*Anampsodax* Bleeker, 1875: 82 (type-species, *A. lienardi* Bleeker [Appeared as "Gen? *Anampsodax Lienardi* Blkr"]).

*Amphes* Jordan & Snyder, 1902: 628 (type-species, *Anampses geographicus* Valenciennes, by original designation).

Genus revised by Randall (1972); 13 species; Indo-Pacific.

## *Anampses caeruleopunctatus* Rüppell

*Anampses caeruleopunctatus* Rüppell, 1829: 42, pl. 10, fig. 1 (El Tur, Sinai coast, Egypt, Gulf of Suez).

*Anampses diadematus* Rüppell, 1835: 21, pl. 6, fig. 3 (El Tur, Sinai coast, Egypt, Gulf of Suez).

*Anampses lineolatus* Bennett, 1836: 208 (Mauritius).

*Anampses chlorostigma* Val., 1840: 9 (Red Sea).

*Anampses coeruleomaculatus* Günther, 1881: pl. 138 (error for *caeruleopunctatus*).

*Anampses taeniatus* Liénard in Sauvage, 1891: 457 (Mauritius).

*Anampses pulcher* Regan, 1913: 371, pl. 58, fig. 3; pl. 59 (Easter Id, southeastern Pacific).

*Anampses tinkhami* Fowler, 1946: 162, fig. 30 (Aguni Shima, Ryukyu Ids, Japan).

DISTRIBUTION: Indo-Pacific, including Red Sea, South Africa, Easter Id and Line Ids.

### *Anampses chrysocephalus* Randall

*Anampses chrysocephalus* Randall, 1958a: 100, fig. 3 (Oahu, Hawaiian Ids).

*Anampses rubrocaudatus* Randall, 1958a: 103, fig. 4 (Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

### *Anampses cuvier* Quoy & Gaimard

*Anampses cuvier* Quoy & Gaimard, 1824: 276, pl. 55, fig. 1 (Maui, Hawaiian Ids).

*Anampses godeffroyi* Günther, 1881: 252, pl. 140 (Hawaiian Ids).

*Anampses evermanni* Jenkins, 1901: 57, fig. 14 (Honolulu).

DISTRIBUTION: Hawaiian Ids.

### *Anampses elegans* Ogilby

*Anampses elegans* Ogilby, 1889: 67 (Lord Howe Id).

*Anampses variolatus* Ogilby, 1889: 67 (Lord Howe Id).

DISTRIBUTION: New Zealand, Lord Howe Id, and New South Wales, Australia.

### *Anampses femininus* Randall

*Anampses femininus* Randall, 1972: 176, pl. 3, figs. a-b (Hanga Piko, Easter Id, southeastern Pacific).

DISTRIBUTION: Easter Id to New South Wales and southern Great Barrier Reef.

### *Anampses geographicus* Valenciennes

*Anampses geographicus* Val., 1840: 10, pl. 389 (Indian Ocean).

*Anampses pterophthalmus* Bleeker, 1857c: 81 (Ambon Id, Moluccas Ids, Indonesia).

*Anampsodax lienardi* Bleeker, 1875: 83 (Mauritius).



DISTRIBUTION: Mauritius to Western Australia, western Pacific, Tonga, Fiji, and Caroline Ids.

***Anampses lennardi* Scott**

*Anampses lennardi* Scott, 1959: 86, fig. 6 (Point Samson, Western Australia, 20°38'S, 117°12'E).

DISTRIBUTION: northwestern Australia.

***Anampses lineatus* Randall**

*Anampses melanurus lineatus*, Randall, 1972: 172, fig. 7 (Eilat, Israel, Gulf of Aqaba).

DISTRIBUTION: Red Sea and Indian Ocean to Indonesia.

***Anampses melanurus* Bleeker**

*Anampses melanurus* Bleeker, 1857c: 79 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: South Africa and Japan to East Indies and French Polynesia.

***Anampses meleagrides* Valenciennes**

*Anampses meleagrides* Val., 1840: 12 (Mauritius).

*Anampses amboinensis* Bleeker, 1857c: 80 (Ambon Id, Moluccas Ids, Indonesia).

*Anampses meleagris* Günther, 1862: 135 (unjustified emendation of *Anampses meleagrides* Valenciennes).

*Anampses lunatus* Sauvage (ex Liénard), 1891: 459 (Amboine; Zanzibar; Mauritius).

*Anampses ikedai* Tanaka, 1908: 32, pl. 1, fig. 2 (Kagoshima Pref., Japan).

*Anampses nagayoi* Tanaka, 1908: 34, pl. 1, fig. 3 (Kagoshima Pref., Japan).

DISTRIBUTION: Red Sea to South Africa, Samoa and Caroline Ids.

***Anampses neoguinaicus* Bleeker**

*Anampses neoguinaicus* Bleeker, 1878: 57, pl. 3, fig. 4 (New Guinea).

*Anampses fidjensis* Sauvage, 1880: 224 (Fiji Ids).

DISTRIBUTION: western Pacific to Fiji.

***Anampses twistii* Bleeker**

*Anampses twistii* Bleeker, 1856a: 56 (Ambon, Indonesia).

DISTRIBUTION: Indo-Pacific, including Red Sea.

***Anampses viridis* Valenciennes**

*Anampses viridis* Val., 1840: (Mauritius).

*Anampses rubroviridis* Liénard in Sauvage, 1891: 458 (Mauritius).

DISTRIBUTION: Mauritius.

**Genus *Anchichoerops* Barnard**

*Anchichoerops* Barnard 1927: 746 (type-species, *Choerops natalensis* Gilchrist & Thompson, by monotypy).

One species.

***Anchichoerops natalensis* (Gilchrist & Thompson)**

*Choerops natalensis* Gilchrist & Thompson, 1909: 259 (Natal, South Africa).

DISTRIBUTION: KwaZulu-Natal to Port St Johns, South Africa.

**Genus *Austrolabrus* Steindachner**

*Austrolabrus* Steindachner, 1884: 1100 (type-species, *Labrichthys maculata* Macleay, by monotypy).

One species.

***Austrolabrus maculatus* (Macleay)**

*Labrichthys maculata* Macleay, 1881: 89 (King George Sound, Western Australia).

DISTRIBUTION: southern Australia: central New South Wales and between Kangaroo Id and Shark Bay.,

**Genus *Bodianus* Bloch**

*Bodianus* Bloch, 1790: 33 (type-species, *Bodianus bodianus* Bloch, by absolute tautonymy).

*Harpe* Lacepède, 1802: 426 (type-species, *Harpe caeruleoauratus* Lacepède, by monotypy).

*Diastodon* Bowdich, 1825: xii, 238 (type-species, *Diastodon speciosus* Bowdich, by monotypy).

*Cossyphus* Val., 1839: 102 (type-species, *Bodianus bodianus* Bloch, by subsequent designation; preoccupied by Olivier 1791 in Coleoptera and by Rafinesque 1815 and Dumont 1823 in Aves).

*Ronchifex* Gistel, 1848: VIII (type-species, *Bodianus bodianus* Bloch, replacement name for *Cossyphus* Valenciennes).

*Lepidaplois* Gill, 1862: 140 (type-species, *Cossyphus axillaris* Valenciennes, by monotypy).

*Trochocopus* Günther, 1862: 100 (type-species, *Trochocopus opercularis* Günther, by monotypy).

*Cheiliopsis* Steindachner, 1863a: 1113 (type-species, *Cheiliopsis bivittatus* Steindachner, by monotypy).

*Euhypsocara* Gill, 1863: 222 (type-species, *Cossyphus anthioides* of Günther, by original designation).

*Gymnopropoma* Gill, 1863: 222 (type-species, *Labrus bilunulatus* Lacepède, by original designation).

*Verreo* Jordan & Snyder, 1902: 619 (type-species, *Cossyphus oxycephalus* Bleeker, by original designation).

*Verriculus* Jordan & Evermann, 1903: 191 (type-species, *V. sanguineus* Jordan & Evermann, by original designation).

*Chaeropsodes* Gilchrist & Thompson, 1909: 260 (type-species, *C. pictus* Gilchrist & Thompson, by monotypy).

*Pseudolepidaplois* Blanchot & Blanc, 1961: 53 (type-species, *P. paffi* Bauchot & Blanc, by monotypy).



The genus is currently under revision by M. Gomon; 38 species (6 undescribed) are listed here. Mostly Indo-Pacific; 2 species in eastern Pacific and 6 in Atlantic.

***Bodianus anthioides* (Bennett)**

*Crenilabrus anthioides*, Bennett, 1832a: 167 (Mauritius).  
*Cossyphus zosterophorus* Bleeker, 1857c: 75 (Ambon Id, Moluccas Ids, Indonesia).  
*Cossyphus boutoni* Liénard in Sauvage, 1891: 452 (Mauritius).  
*Cossyphus bicolor* Liénard in Sauvage, 1891: 453 (Mauritius).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

***Bodianus axillaris* (Bennett)**

*Labrus axillaris* Bennett, 1832a: 167 (Mauritius).  
*Cossyphus axillaris* Val., 1839: 131, pl. 371 (Mauritius).  
*Cossyphus octomaculatus* Liénard in Sauvage, 1891: 454 (Mauritius).  
*Lepidaplois albomaculatus* Smith, 1957a: 101, fig. 1 (Mauritius).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

***Bodianus bilunulatus* (Lacepède)**

*Labrus bilunulatus* Lacepède, 1801: 454, 526, pl. 31, fig. 2 (Great Equatorial Ocean [Mauritius]).  
*Cossyphus albotaeniatus* Val., 1839: 141 (Hawaiian Ids).  
*Crenilabrus modestus* Garrett, 1864: 106 (Honolulu fish market, Oahu Id, Hawaiian Ids).  
*Lepidaplois strophodes* Jordan & Evermann, 1903: 103 (Honolulu, Oahu Id, Hawaiian Ids).  
*Lepidaplois richardsoni* Fowler, 1908: 433, fig. 7 (Victoria, Australia).  
*Lepidaplois atrorubens* Jordan [E.K.], 1925: 23, pl. 1, fig. 3 (Honolulu fish market, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Indo-Pacific. Three subspecies: *Bodianus bilunulatus albotaeniatus*: Hawaiian Ids; *Bodianus bilunulatus bilunulatus*: Indian Ocean and western Pacific; and *Bodianus bilunulatus* new subspecies, eastern central Pacific (M. Gomon, pers. comm.).

***Bodianus bimaculatus* Allen**

*Bodianus bimaculatus* Allen, 1973: 386, fig. 1 (Bairakaseru Id, Ngemelis Ids, Palau Archipelago, Philippine Sea).

DISTRIBUTION: South Africa, Mauritius and Maldives to western Pacific.

***Bodianus cylindriatus* (Tanaka)**

*Verreo cylindriatus* Tanaka, 1930: 941, pl. 187, fig. 513 (Tokyo fish market, Japan).

DISTRIBUTION: Japan, Taiwan, New Caledonia, and

northwestern Hawaiian Ids.

***Bodianus diana* (Lacepède)**

*Labrus diana* Lacepède, 1801: 450, 522, pl. 32, fig. 1 (Indo-Pacific Ocean).  
*Cossyphus spilotes* Guichenot, 1865: 13 (Réunion Id).  
*Lepidaplois aldabrensis* Smith, 1955: 932, pl. 24 (Aldabra Id).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia, Samoa and Marshall Ids.

***Bodianus diplotaenia* (Gill)**

*Harpe diplotaenia* Gill, 1862: 140 (Cape San Lucas, Baja California, Mexico).  
*Harpe pectorallis* Gill, 1862: 141 (Cape San Lucas, Baja California, Mexico).

DISTRIBUTION: Baja California to Peru; records from Chile are questionable (M. Protti, pers. comm.).

***Bodianus eclancheri* (Valenciennes)**

*Cossyphus eclancheri* Valenciennes, 1846: pl. 8, fig. 2 (Galápagos Ids); the species name dates to publication of the plate; the corresponding text was published later (Valenciennes, 1855: 340).

DISTRIBUTION: Ecuador to Chile, Galápagos Ids.

***Bodianus frenchii* (Klunzinger)**

*Cossyphus frenchii* Klunzinger, 1880: 400 (King George Sound, Western Australia).  
*Trochocopus rufus* Macleay, 1878b: 35, pl. 5, fig. 3 (King George Sound, Western Australia).

DISTRIBUTION: southeastern and southwestern Australia.

***Bodianus insularis* Gomon & Lubbock**

*Bodianus insularis* Gomon & Lubbock, 1980: 106, figs. 1-3 (English Bay, Ascension Id).

DISTRIBUTION: Ascension, St. Helena and St. Paul's Rocks.

***Bodianus izuensis* Araga & Yoshino**

*Bodianus izuensis* Araga & Yoshino in Masuda, Araga & Yoshino, 1975: 296, pl. 103, fig. G (off Izu Oceanic Park, Shizuoka Pref., Japan).

DISTRIBUTION: Japan, Taiwan, New Caledonia, and eastern Australia.

***Bodianus leucosticticus* (Bennett)**

*Labrus leucosticticus* Bennett, 1832a: 166 (Mauritius).  
*Lepidaplois bourbon* Fourmanoir & Guézé, 1961: 7, fig. 1 (Réunion Id).



DISTRIBUTION: Madagascar, Mauritius, Réunion, Comores, Indonesia, Taiwan, and southern Japan.

REMARKS: the specific name was misspelled as *leucostictus* by Smith (1957a), Randall (1986a), and Shen (1993).

***Bodianus loxozonus* (Snyder)**

*Lepidaplois loxozonus* Snyder, 1908: 95 (Okinawa, Japan).  
*Lepidaplois trotteri* Fowler & Bean, 1923: 20 (Tuamotu Ids).

DISTRIBUTION: two subspecies: *B. loxozonus*, *loxozonus*: western Pacific to Mariana and Marshall Ids, and *B. loxozonus trotteri* Line Ids to French Polynesia (Myers, 1989).

***Bodianus macrognathos* (Morris)**

*Lepidaplois macrognathos* Morris, 1974: 632, figs. 1-2 (off Kanyika Id, Kenya, 2°27'S, 40°52'E, 65 m.).

DISTRIBUTION: Kenya and Oman.

***Bodianus macrourus* (Lacepède)**

*Labrus macrourus* Lacepède, 1801: 438, 493, pl. 9, fig. 3 (Indo-Pacific Ocean).  
*Labrus hirsutus* Lacepède, 1801: 429, 473, pl. 20, fig. 1 (Great Gulf of India).  
*Labrus rubrolineatus* Lacepède, 1801: 433, 480 (Madagascar and Réunion Id).  
*Crenilabrus croceus* Lesson, 1828: 407 (Mauritius).  
*Crenilabrus chabroliei* Lesson, 1830: 133, pl. 38 (Mauritius).  
*Labrus spilonotus* Bennett, 1836: 207 (Mauritius).  
*Cossyphus maldat* Val., 1839: 114 (Mauritius).  
*Cossyphus macrurus* Günther, 1862: 104 (unjustified emendation of *Labrus macrourus*, Lacepède).

DISTRIBUTION: western Indian Ocean.

***Bodianus masudai* Araga & Yoshino**

*Bodianus masudai*, Araga & Yoshino in Masuda, Araga & Yoshino, 1975: 297, pl. 103, fig. H (off Izu Oceanic Park, Shizuoka Pref., Japan).

DISTRIBUTION: Japan, Taiwan, and New Caledonia.

***Bodianus mesothorax* (Bloch & Schneider)**

*Labrus mesothorax* Bloch & Schneider, 1801: 254 (East Indies).  
*Scarus mordax* Gronow in Gray, 1854: 64 (Indian Ocean).

DISTRIBUTION: western Pacific to Christmas Id (eastern Indian Ocean).

***Bodianus neilli* (Day)**

*Cossyphus neilli* Day, 1867b: 560 (Madras, India).

DISTRIBUTION: India and Sri Lanka.

***Bodianus opercularis* (Guichenot)**

*Cossyphus opercularis* Guichenot, 1847: 283 (Madagascar).  
*Trochocopus opercularis* Günther, 1862: 100 (Mauritius?).  
*Cheiliopsis bivittatus* Steindachner, 1863a: 1113, pl. 24, fig. 1-1c (Mauritius).

DISTRIBUTION: Red Sea and Indian Ocean to Indonesia.

***Bodianus oxycephalus* (Bleeker)**

*Cossyphus oxycephalus* Bleeker, 1862d: 129 (Japan).

DISTRIBUTION: Japan.

***Bodianus perditio* (Quoy & Gaimard)**

*Labrus perditio* Quoy & Gaimard, 1834: 702, pl. 20, fig. 4 (Tongatabu, Tonga Ids).  
*Cossyphus atrolumbus* Val., 1839: 123 (Mauritius).  
*Trochocopus sanguinolentus* De Vis, 1883: 287 (Cape Moreton, Queensland, Australia).  
*Cossyphus aurifer* De Vis, 1884: 146 (Moreton Bay, Queensland, Australia).  
*Cossyphus latro* De Vis, 1885: 878 (Moreton Bay).  
*Cossyphus nigromaculatus* Gilchrist & Thompson, 1908: 197 (off Durban harbor, South Africa).  
*Chaeropsodes pictus* Gilchrist & Thompson, 1909: 260 (Durban market, South Africa).

DISTRIBUTION: Indo-Pacific; anti-equatorial: southern Africa to the islands of southern Oceania and from Taiwan to southern Japan.

***Bodianus prognathus* Lobel**

*Bodianus prognathus* Lobel, 1981: 45, figs. 1-4 (Fanning Id, Line Ids).

DISTRIBUTION: Line Ids, central Pacific.

***Bodianus pulchellus* (Poey)**

*Cossyphus pulchellus* Poey, 1860: 208 (Cuba).  
*Harpe naevius* Eigenmann, 1894: 630 (Rio de Janeiro, Brazil).

DISTRIBUTION: Bermuda, North Carolina to Florida, Gulf of Mexico, Caribbean and West Indies to Venezuela.

***Bodianus rufus* (Linnaeus)**

*Labrus rufus* Linnaeus, 1758: 284 (America).  
*Bodianus bodianus* Bloch, 1790: 33, pl. 223 (Brazil).  
*Lutjanus verres* Bloch, 1791: 9, pl. 255 ("Japan"; evidently erroneous).  
*Sparus falcatus* Bloch, 1791: 20, pl. 258 (Martinique Id).  
*Labrus semiruber* Lacepède, 1801: 428, 473 (Brazil).  
*Bodianus blochii* Lacepède, 1802: 279, 287 (Brazil).  
*Harpe caeruleoaurus* Lacepède, 1802: 426, 427, pl. 8, fig. 2 (Martinique Id, West Indies).  
*Bodianus brachyrhynchus* Miranda-Ribeiro, 1918: 787 (Estado de Bahia, Brazil).



DISTRIBUTION: Bermuda, North Carolina to Florida, Gulf of Mexico, Caribbean and West Indies to southern Brazil.  
REMARKS: *Bodianus brachyrhynchus* is a synonym according to Luiz Alves Rocha (pers. comm.).

***Bodianus sanguineus* (Jordan & Evermann)**

*Verriculus sanguineus* Jordan & Evermann, 1903: 191 (Hilo, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

***Bodianus scrofa* (Valenciennes)**

*Labrus scrofa* Val., 1839: 93 (Cape Verde Ids and Madeira).  
*Crenilabrus caninus* Lowe, 1839: 84 (off Madeira).  
*Pseudolepidaplois pfaffi* Bauchot & Blanc, 1961: 54, fig. 4 (Santa Cruz, Tenerife, Canary Ids).

DISTRIBUTION: eastern tropical Atlantic.

***Bodianus speciosus* (Bowdich)**

*Diastodon speciosus* Bowdich, 1825: 238, fig. 41 (St Jago Id, Madeira).  
*Labrus iagonensis* Bowdich, 1825: 234, fig. 47 (St Jago Id, Madeira and River Gambia, West Africa).  
*Cossyphus tredecimspinosus* Günther, 1862: 107 (no locality).  
*Cossyphus jagonensis* Troschel, 1866: 229 (emendation of *Labrus iagonensis* Bowdich).

DISTRIBUTION: eastern tropical Atlantic.

***Bodianus tanyokidus* Gomon & Madden**

*Bodianus tanyokidus* Gomon & Madden, 1981: 122, figs. 2-3 (Mauritius).

DISTRIBUTION: Comoro Ids, Mauritius, southern Japan, southern Marianas.

***Bodianus thoracotaeniatus* Yamamoto**

*Bodianus thoracotaeniatus* Yamamoto, in Amaoka et al., 1982: 245, pl. 170 (Kita Koho Seamount, Kyushu-Palau Ridge, W. Pacific, 26°45' N, 135°22' E; 345 m).

DISTRIBUTION: southern Japan and Taiwan.

***Bodianus trilineatus* (Fowler)**

*Lepidaplois trilineatus* Fowler, 1934: 492, fig. 47 (Natal coast, South Africa).  
*Lepidaplois luteopunctatus* Smith, 1957a: 102, pl. 1, fig. A (off Delagoa Bay, Mozambique).

DISTRIBUTION: Gulf of Aden to South Africa.

***Bodianus unimaculatus* (Günther)**

*Cossyphus unimaculatus* Günther, 1862: 109, 506 (Australia).

*Cossyphus bellis* Ramsay & Ogilby, 1887c: 561 (Shoalhaven, New South Wales, Australia).

DISTRIBUTION: southeastern Australia, New Zealand, Lord Howe Id, and Norfolk Id to Easter Id.

***Bodianus vulpinus* (Richardson)**

*Cossyphus vulpinus* Richardson, 1850: 71 (Australia).

DISTRIBUTION: western Australia.

***Bodianus* sp 1**

DISTRIBUTION: Western Australia.

***Bodianus* sp 2**

DISTRIBUTION: southeastern Australia and New Zealand.

***Bodianus* sp 3**

DISTRIBUTION: New Caledonia and eastern Australia.

***Bodianus* sp 4**

DISTRIBUTION: Cook Ids, Papua New Guinea, New Caledonia and Palau.

***Bodianus* sp 5**

DISTRIBUTION: Hawaiian Ids.

***Bodianus* sp 6**

DISTRIBUTION: Line Ids, central Pacific.

**Genus *Centrolabrus* Günther**

*Centrolabrus* Günther, 1861: 303 (type-species, *Labrus exoletus* Linnaeus, by subsequent designation).

Three species; eastern Atlantic.

***Centrolabrus caeruleus* Azevedo**

*Centrolabrus caeruleus* Azevedo, 1999: 3, fig. 1, a-b (Ponta Delgada, São Miguel Id, Azores).

DISTRIBUTION: Azores Ids.

***Centrolabrus exoletus* (Linnaeus)**

*Labrus exoletus* Linnaeus, 1758: 287 (Atlantic Ocean).  
*Labrus chinensis* Linnaeus, 1758: 287 ("Asia" [probably Europe]).  
*Labrus pentacanthus* Lacepède, 1801: 441, 503 (between Norway and Greenland).  
*Crenilabrus microstoma* Thompson (ex Couch), 1837: 55 (Cornwall, England).

DISTRIBUTION: northeastern Atlantic from Greenland and Norway to Portugal.



REMARKS: synonymy from Bauchot (1963) and Bauchot and Quignard (1973). Lönnberg (1896) regarded *Labrus chinensis* as a synonym of *Labrus exoletus*. The diagnosis of *L. chinensis* is concise, but the anal-fin ray count of five spines in a total of 12 elements suggests that it may represent *C. exoletus*. Wheeler (1991: 178) examined the Linnean fish collection at Uppsala and concluded that the specimen labelled *Centrolabrus exoletus*, (ZIU 194) is apparently the type of *L. chinensis*. The type of *Labrus exoletus* is no longer extant. As stated by Wheeler, "if it became necessary in a revisionary study to designate a neotype for *L. exoletus*, it might be desirable to designate this specimen".

***Centrolabrus trutta* (Lowe)**

*Crenilabrus trutta* Lowe, 1834: 143 (off Madeira).  
*Crenilabrus trutta* var. *unicolor* Lowe, 1838: 187 (Madeira).  
*Acantholabrus viridis* Val., 1839: 252 (Canary Ids).  
*Acantholabrus romeritus* Valenciennes, 1843: 64 (Canary Ids).  
*Acantholabrus romerus* Valenciennes, 1843: 64 (Lanzarote, Canary Ids).

DISTRIBUTION: Azores, Madeira, and Canary Ids.  
 REMARKS: synonymy from Gomon and Forsyth (1990).

**Genus *Cheilinus* Lacepède**

*Cheilinus* Lacepède, 1801: 529 (type-species, *Cheilinus trilobatus* Lacepède, by subsequent designation; *Chilinus* is a misspelling).  
*Crassilabrus* Swainson, 1839: 172, 225 (type-species, *Cheilinus undulatus* Rüppell, by monotypy; proposed as subgenus).  
*Thalliurus* Swainson, 1839: 230 (type-species, *Thalliurus blochii* Swainson, by monotypy; proposed as subgenus).  
*Urichthys* Swainson, 1839: 172, 225 (type-species, *Labrus lunulatus* Forsskål, by subsequent designation; proposed as subgenus).

Seven species; Indo-Pacific. The genus is currently under revision by M.W. Westneat, J.E. Randall, and M.F. Gomon; synonymies should be considered provisional.

***Cheilinus abudjubbe* (Rüppell)**

*Cheilinus abudjubbe* Rüppell, 1835: 18 (Red Sea).

DISTRIBUTION: Red Sea.

***Cheilinus chlorourus* (Bloch)**

*Sparus chlorourus* Bloch, 1791: 24, pl. 260 (Japan).  
*Thalliurus blochii* Swainson, 1839: 230 (no locality).  
*Cheilinus punctatus* Bennett, 1832a: 167 (Mauritius).  
*Cheilinus punctulatus* Val., 1840: 87, pl. 396 (Seychelles).  
*Cheilinus blochii* Val., 1840: 108 (Japan).  
*Cheilinus guttatus* Bleeker, 1847: 161 (Jakarta, Indonesia).  
*Cheilinus decacanthus* Bleeker, 1851b: 256 (Indonesia).

DISTRIBUTION: Indo-Pacific, from South Africa to Japan,

Australia and central Pacific.

***Cheilinus fasciatus* (Bloch)**

*Sparus fasciatus*, Bloch, 1791: 18, pl. 257 (Japan).  
*Labrus enneacanthus* Lacepède, 1801: 433, 480 (no locality).  
*Sparus bandatus* Perry, 1811: no page (Eastern Ocean).  
*Cheilinus quinquecinctus* Rüppell, 1835: 19, pl. 6, fig. 1 (Jidda [Jeddah], Saudi Arabia, Red Sea).

DISTRIBUTION: Red Sea to Mozambique, Samoa and Marshall Ids.

REMARKS: *Sparus bandatus* is a synonym according to Whitley (1931b).

***Cheilinus lunulatus* (Forsskål)**

*Labrus lunulatus* Forsskål, 1775: 37 (Jeddah, Red Sea).  
*Cheilinus lunifer* Nichols, 1923: 3, fig. 3 (Djibouti).

DISTRIBUTION: Red Sea to Persian Gulf.

***Cheilinus oxycephalus* (Bleeker)**

*Cheilinus kettlitzii* Val., 1840: 105 (Ulea, Caroline Ids).  
*Cheilinus sanguineus* Val., 1840: 106 (Ulea, Caroline Ids).  
*Cheilinus oxycephalus* Bleeker, 1853h: 349 (Indonesia).  
*Cheilinus calophthalmus* Playfair & Günther, 1867: 90, pl. 11, fig. 4 (Zanzibar).

DISTRIBUTION: Indo-Pacific, from South Africa to Japan, Australia and central Pacific.

REMARKS: *Cheilinus kettlitzii*, *Cheilinus sanguineus*, and *Cheilinus calophthalmus*, are new synonyms of *Cheilinus oxycephalus* (Mark Westneat, pers. comm.). Fowler (1928: 362) emended *Cheilinus kettlitzii* to *kittlitzii*, and regarded it as the valid name for the species presently known as *Oxycheilinus celebicus* (Bleeker). Randall and Parenti (1999) proposed that *kettlitzii* and *sanguineus* be suppressed in order to conserve *oxycephalus*.

***Cheilinus trilobatus* Lacepède**

*Cheilinus trilobatus* Lacepède, 1801: 529, 537, pl. 31, fig. 3 (type localities, Réunion, Mauritius and Madagascar).  
*Cheilinus trilobus* Schinz, in Cuvier, 1822: 427 (emendation of *Cheilinus trilobatus* Lacepède).  
*Cheilinus sinuosus* Quoy & Gaimard, 1824: 278 (Madagascar, Hawaiian Ids and Mariana Ids).  
*Cheilinus rivulatus* Val., 1840: 86 (New Ireland Id).  
*Cheilinus festivus* Val., 1840: 104 (Oualan, Caroline Ids).  
*Cheilinus maculosus* Val., 1840: 104 (Oualan Id).  
*Cheilinus nebulosus* Richardson, 1846b: 261 (Sea of China).  
*Cheilinus tetrazona* Bleeker, 1853c: 293 (Indonesia).  
*Cheilinus fasciatopunctatus* Steindachner, 1863a: 1114, pl. 23 (Red Sea).  
*Cheilinus pulchellus* Sauvage, 1880: 224 (Fiji Ids).

DISTRIBUTION: Indo-Pacific, from South Africa to Japan, Australia and central Pacific.

REMARKS: Daget (1968) discussed the status of *Cheilinus trilobus*.



### ***Cheilinus undulatus* (Rüppell)**

- Cheilinus undulatus* Rüppell, 1835: 20, pl. 6, fig. 2 (Jidda [Jeddah], Saudi Arabia, Red Sea).  
*Cheilinus mertensii* Val., 1840: 102 (Guam, Mariana Ids).  
*Chilinus godeffroyi* Günther, 1872a: 666, pl. 66 (Tonga Ids).  
*Cheilinus rostratus* Cartier, 1874: 103 (Cebu, Philippines).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### **Genus *Cheilio* Lacepède**

- Cheilio* Lacepède, 1802: 432 (type-species, *C. auratus* Lacepède, by subsequent designation).  
*Micropodus* Rafinesque, 1815: 86 (unneeded replacement name for *Cheilio* Lacepède).  
*Eupemis* Swainson, 1839: 173, 232 (type-species, *Labrus fusiformis* Rüppell, by monotypy; proposed as subgenus of *Julis* on p. 173 and as subgenus of *Gomphosis* on p. 233).

One species.

### ***Cheilio inermis* (Forsskål)**

- Labrus inermis* Forsskål, 1775: 34 (Yemen, Red Sea).  
*Labrus hassek* Lacepède, 1801: 444 513 (Arabia, *nomen novum*, for *Labrus inermis* Forsskål).  
*Cheilio auratus* Lacepède, 1802: 432, 433 (Mauritius).  
*Cheilio fuscus* Lacepède, 1802: 432, 433 (Mauritius).  
*Labrus fusiformis* Rüppell, 1835: 7, pl. 1, fig. 4 (Jeddah, Saudi Arabia, and Massawa, Eritrea).  
*Cheilio cyanochloris* Val., 1839: 346, pl. 382 (Mauritius).  
*Cheilio forskalii* Val., 1839: 349 (Mauritius and Suez).  
*Cheilio hemichrysos* Val., 1839: 351 (Hawaiian Ids).  
*Cheilio viridis* Val., 1839: 352 (Vanikoro, Santa Cruz Ids).  
*Cheilio microstoma* Val., 1839: 353 (no locality).  
*Cheilio ramosus* Jenyns, 1842: 102 (Japan).  
*Cheilio bicolor* Bianconi, 1857: 100 (Mozambique).  
*Cheilio udanad* Montrouzier, 1857: 470 (Woodlark Id).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Hawaiian Ids, Australia and Easter Id.

REMARKS: synonymy from Fowler (1928) de Beaufort (1940), and Bauchot (1963).

### **Genus *Choerodon* Bleeker,**

- Choerodon* Bleeker, 1849: 10 (type-species, *Labrus macrodontus* Lacepède, by monotypy).  
*Choerops* Rüppell, 1852: 20 (type-species, *Choerops meleagris* Rüppell, by monotypy).  
*Cossyphodes* Bleeker, 1860a: 37 (type-species, *Labrus macrodontus* Lacepède, by monotypy).  
*Hypsigenys* Günther, 1861: 383 (type-species, *Labrus macrodontus* Lacepède, by monotypy).  
*Torresia* Castelnau, 1875: 36 (type-species, *T. australis* Sauvage, by monotypy).  
*Lienardella* Fowler & Bean, 1928: 202 (type-species, *Lepidaplois mirabilis* Snyder, by original designation; proposed as a subgenus).  
*Macrochoerodon* Fowler & Bean, 1928: 200 (type-species,

*Crenilabrus oligacanthus* Bleeker, by original designation).

- Peaolopesia* Smith, 1949: 370 (type-species, *Xiphochilus gymnogynus* Günther, by original designation).  
*Aspiurochilus* Fowler, 1956: 176 (type-species, *Crenilabrus stejnegeri* Ishikawa, by original designation; proposed as a subgenus).  
*Choerodonoides* Kamohara, 1958: 2 (type-species, *C. japonicus* Kamohara, by original designation).

Twenty-three species plus two undescribed species; Indo-Pacific. We follow Gomon (1974a) in placing *Lienardella* Fowler & Bean in synonymy. The genus is being revised by M.F. Gomon. Names and synonyms are provisional.

### ***Choerodon anchorago* (Bloch)**

- Sparus anchorago* Bloch, 1791: 108, pl. 276 ("Received from the Holland auction").  
*Labrus macrodontus* Lacepède, 1801: 451, 522 (no locality).  
*Cossyphus macrodon* Bleeker, 1849a: 10 (unjustified emendation of *Labrus macrodontus* Lacepède).  
*Choerops meleagris* Rüppell, 1852: 20 (Mare Javanicum).  
*Labrus chlorodus* Gray, 1854: 80 (no locality).  
*Crenilabrus leucozona* Bleeker, 1858c: 238 (Indonesia).  
*Choerops maeander* Cartier, 1874: 102 (Cebu, Philippines).  
*Choerodon weberi* Ogilby, 1911: 52 (Aru Ids, Indonesia).

DISTRIBUTION: Sri Lanka to Ryukyus, French Polynesia and New Caledonia.

### ***Choerodon azurio* (Jordan & Snyder)**

- Labrus japonicus* Val., 1839: 99 (Japan; preoccupied by *Labrus japonicus* Houttuyn, 1782 *nomen dubium*).  
*Choerops azurio* Jordan & Snyder, 1901: 747 *nomen novum* for *Labrus japonicus* Valenciennes.  
*Crenilabrus stejnegeri* Ishikawa, 1904: 13, pl. 6, fig. 2 (Miyako-jima, Ryukyu Ids, Japan).

DISTRIBUTION: Taiwan, Japan.

REMARKS: M.F. Gomon informed us that *Crenilabrus stejnegeri* is a synonym of *C. azurio*.

### ***Choerodon cauteroma* Gomon & Allen**

- Choerodon cauteroma* Gomon & Allen, 1987: 25 (Exmouth Gulf, Western Australia).

DISTRIBUTION: western Australia.

### ***Choerodon cephalotes* (Castelnau)**

- Chaerops cephalotes* Castelnau, 1875: 39 (Queensland).  
*Choerops perpulcher* De Vis, 1885: 877 (Queensland).  
*Choerops macleayi* Ramsay & Ogilby, 1887: 241 (Port Jackson, New South Wales, Australia).  
*Choerops hodgkinsonii* Saville-Kent, 1893: 296, 370, pl. 15, fig. 2 (Port Denison, Queensland, Australia).

DISTRIBUTION: northern Australia.



***Choerodon cyanodus* (Richardson)**

*Labrus cyanodus*, Richardson, 1843b: 355 (Black Point, Port Essington, Queensland, Australia).  
*Chaerops crassus* Castelnau, 1875: 39 (Dampier Archipelago, Western Australia).  
*Choerops albigena* De Vis, 1885: 876 (Queensland).  
*Choerops olivaceus* De Vis, 1885: 876 (Queensland).  
*Choerops unimaculatus* De Vis, 1885: 877 (Great Barrier Reef; preoccupied by *Choerops unimaculatus* Cartier, 1874 [= *Choerodon schoenleinii* (Valenciennes)]).  
? *Choerops concolor* De Vis, 1885: 878 (Queensland).

DISTRIBUTION: Indonesia and north coast of Australia.  
REMARKS: Assignment of the De Vis names from M.F. Gomon (pers. comm.).

***Choerodon fasciatus* (Günther)**

*Xiphochilus fasciatus* Günther, 1867: 101, pl. 10 (Cape York, Queensland, Australia).  
*Lepidaplois mirabilis* Snyder, 1908: 96 (Okinawa, Japan).  
*Choerodon balerensis* Herre, 1950: 149 (Philippines).

DISTRIBUTION: western Pacific.  
REMARKS: *Choerodon balerensis* is a synonym according to M.F. Gomon (pers. comm.).

***Choerodon frenatus* Ogilby**

*Choerodon frenatus* Ogilby, 1910b: 99 (north of Double Id Point, Queensland, Australia).

DISTRIBUTION: northeastern Australia.

***Choerodon graphicus* (De Vis)**

*Choerops graphicus* De Vis, 1885: 878 (Queensland).  
*Choerodon transversalis* Whitley, 1956: 258, fig. 7 (Heron Id, Capricorn Group, Queensland, Australia).

DISTRIBUTION: New Caledonia, southern Great Barrier Reef.

***Choerodon gymnogenys* (Playfair & Günther)**

*Xiphochilus gymnogenys* Playfair & Günther, 1867: 85, pl. 12, fig. 4 (Zanzibar).

DISTRIBUTION: Tanzania. Kenya? Mozambique?

***Choerodon jordani* (Snyder)**

*Choerops jordani* Snyder, 1908: 98 (Okinawa Id, Japan).

DISTRIBUTION: western Pacific.

***Choerodon margaritiferus* (Fowler & Bean)**

*Choerodon margaritiferus* Fowler & Bean, 1928: 197 (Jolo market, Philippines).

DISTRIBUTION: New Caledonia, Philippines.

***Choerodon melanostigma* (Fowler & Bean)**

*Choerodon melanostigma* Fowler & Bean, 1928: 199, pl. 16 (Jolo market, Philippines).

DISTRIBUTION: Philippines; records from New Caledonia are misidentifications of *C. jordani*.

***Choerodon monostigma* (Ogilby)**

*Choerodon monostigma* Ogilby, 1910b: 102 (Queensland).

DISTRIBUTION: northern Australia and New Guinea.

***Choerodon oligacanthus* (Bleeker)**

*Crenilabrus oligacanthus* Bleeker, 1851c: 489 (Rio [Rhio or Riouw], Indonesia).  
*Choerops palawanensis* Seale, 1910: 523 (Philippines).

DISTRIBUTION: Indonesia, Philippines.

***Choerodon paynei* Whitley**

*Choerodon paynei* Whitley, 1945: 29, fig. 14 (Dirk Hartog Id, Western Australia).

DISTRIBUTION: western Australia.

***Choerodon robustus* (Günther)**

*Xiphochilus robustus* Günther, 1862: 98 (Mauritius).  
*Cossyphus maxillosus* Guichenot, 1865: 23 (Réunion Id).  
*Choerops dodecacanthus* Bleeker, 1868: 275 (Réunion Id).  
*Choerodon pescadorensis* Yu, 1968: 10, fig. 4 (Pescadores Ids, Taiwan).

DISTRIBUTION: Red Sea, Réunion, Mauritius, Taiwan, Japan.  
REMARKS: *Choerodon pescadorensis* Yu is a synonym (S.C. Shen, pers. comm.).

***Choerodon rubescens* (Günther)**

*Choerops rubescens* Günther, 1862: 97 (Houtman Abrolhos, Western Australia).

DISTRIBUTION: western Australia.

***Choerodon schoenleinii* (Valenciennes)**

*Cossyphus schoenleinii* Val., 1839: 143 (Indonesia).  
*Cossyphus cyanostolus* Richardson, 1846b: 256 (China).  
*Cossyphus ommopterus* Richardson, 1846b: 257 (China).  
*Choerops unimaculatus* Cartier, 1874: 102 (Philippines).  
*Torresia australis* Castelnau, 1875: 36 (Queensland).  
*Torresia lineata* De Vis, 1885: 881 (Cardwell, Queensland).  
*Chaerops notatus* Alleyne & Macleay, 1877: 344, pl. 16, fig. 1 (Cape Grenville, Queensland, Australia).  
? *Choerops nyctemblema* Jordan & Evermann, 1902: 353, fig. 21 (Taiwan).  
*Choerodon rubidus* Scott, 1959: 89, fig. 7 (Shark Bay, Western Australia).  
*Choerodon quadrifasciatus* Yu, 1968: 11, fig. 5 (Taiwan).



DISTRIBUTION: Okinawa to Indonesia and Australia.  
REMARKS: Synonymy from M.F. Gomon, (pers. comm.).

***Choerodon sugillatum* Gomon**

*Choerodon sugillatum* Gomon, 1987: 19 (Cape Bedford, Queensland, Australia).

DISTRIBUTION: Queensland to northwestern Australia.

***Choerodon venustus* (De Vis)**

*Choerops venustus* De Vis, 1884: 147 (Moreton Bay, Queensland, Australia).

*Choerodon ambiguus* Ogilby, 1910b: 100 (Queensland).

DISTRIBUTION: Great Barrier Reef to southeastern Australia.  
REMARKS: Synonymy from M.F. Gomon, (pers. comm.).

***Choerodon vitta* (Ogilby)**

*Choerodon vitta* Ogilby, 1910a: 13 (Aru Ids, Indonesia).

DISTRIBUTION: Aru Ids, Papua New Guinea, and northern Australia.

***Choerodon zamboangae* (Seale & Bean)**

*Choerops zamboangae* Seale & Bean, 1907: 236, fig. 6 (Zamboanga, Philippines).

DISTRIBUTION: West Pacific.

***Choerodon zosterophorus* (Bleeker)**

*Choerops zosterophorus* Bleeker, 1868: 273, pl. 12, top fig. (Great Kai Id, Indonesia).

*Choerops brenchleyi* Günther, 1872b: 424 (Indonesia).

DISTRIBUTION: East Indies.

**Genus *Cirrhilabrus* Temminck & Schlegel**

*Cirrhilabrus* Temminck & Schlegel, 1845: 167 (type-species, *Cirrhilabrus temminckii* Bleeker, by subsequent designation).

*Cheilinoides* Bleeker, 1851a: 71 (type-species, *Cheilinoides cyanopleura* Bleeker, by monotypy).

*Cirrhilabrichthys* Klausewitz, 1976: 12 (type-species, *C. filamentosus* Klausewitz, by original designation).

*Neocirrhilabrus* Cheng & Wang, 1979: 73 (type-species, *N. oxyurus* Cheng & Wang, by original designation).

Thirty-six species and 5 undescribed species. Red Sea to Central Pacific.

***Cirrhilabrus adornatus* Randall & Kunzmann**

*Cirrhilabrus adornatus* Randall & Kunzmann, 1998: 41, figs. 1-4 (Pulau Ular, off Padang, Sumatra, Indonesia).

DISTRIBUTION: Sumatra and Mentawai Ids.

***Cirrhilabrus aurantidorsalis* Allen & Kuitert**

*Cirrhilabrus aurantidorsalis* Allen & Kuitert, 1999: 134, figs. 1-3 (Batudaka Id., Togean Islands, Indonesia).

DISTRIBUTION: Indonesia.

***Cirrhilabrus balteatus* Randall**

*Cirrhilabrus balteatus* Randall, 1988: 210, pls. 1, figs. c-d, 3, figs. d-f (Eniwetak Atoll, Marshall Ids).

DISTRIBUTION: Marshall Ids.

***Cirrhilabrus blatteus* Springer & Randall**

*Cirrhilabrus blatteus* Springer & Randall, 1974: 48, figs. 2-3 (Eilat, Israel, Gulf of Aqaba, Red Sea).

DISTRIBUTION: Red Sea.

***Cirrhilabrus condei* Allen & Randall**

*Cirrhilabrus condei* Allen & Randall, 1996: 102, figs. 1-2 (Rausch Pass, Madang, Papua New Guinea).

DISTRIBUTION: Papua New Guinea and Great Barrier Reef.

***Cirrhilabrus cyanopleura* (Bleeker)**

*Cheilinoides cyanopleura* Bleeker, 1851a: 72, pl. 1 (Batavia [Jakarta], Indonesia).

*Cirrhilabrus heterodon* Bleeker, 1871: 326, fig. 1 (Ambon Id, Moluccas Ids, Indonesia).

*Cirrhilabrus lyukyuensis* Ishikawa, 1904: 12, pl. 6, fig. 1 (Naha, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: western Indonesia to southern Japan.

REMARKS: synonymy from Randall & Shen, 1978.

***Cirrhilabrus exquisitus* Smith**

*Cirrhilabrus exquisitus* Smith, 1957a: 109, fig. 4; pl. 2, fig. E (Pinda, Mozambique).

DISTRIBUTION: Indo-Pacific.

***Cirrhilabrus filamentosus* (Klausewitz)**

*Cirrhilabrichthys filamentosus* Klausewitz, 1976: 12, figs. 1-3 (Java Sea, [aquarium import from Indonesia]).

DISTRIBUTION: Indonesia.

***Cirrhilabrus flavidorsalis* Randall & Carpenter**

*Cirrhilabrus flavidorsalis* Randall & Carpenter, 1980: 21, figs. 1B, 7-8 (Monthage Id, Sulawesi, Indonesia).

DISTRIBUTION: Philippines and Indonesia.



***Cirrhilabrus johnsoni* Randall**

*Cirrhilabrus johnsoni* Randall, 1988: 217, pl. 2, fig. c (Kwajalein Atoll, Marshall Ids).

DISTRIBUTION: Marshall Ids.

***Cirrhilabrus jordani* Snyder**

*Cirrhilabrus jordani* Snyder, 1904: 529, pl. 10, fig. 18 (between Maui and Lanai islands, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

***Cirrhilabrus katherinae* Randall**

*Cirrhilabrus katherinae* Randall, 1992a: 108, pl. 3 B,C (Igaya Bay, Miyake-jima, Izu Ids, Japan).

DISTRIBUTION: Mariana Ids and Izu Ids.

***Cirrhilabrus katoi* Senou & Hirata**

*Cirrhilabrus katoi* Senou & Hirata, 2000: 89, fig. 1 (Hachijo-jima Id, Izu Ids, Japan).

DISTRIBUTION: Izu Ids and Kashiwa-jima Id, Japan.

***Cirrhilabrus laboutei* Randall & Lubbock**

*Cirrhilabrus laboutei* Randall & Lubbock, 1982: 2, pl. 1, figs A-B (south of Nouméa, New Caledonia).

DISTRIBUTION: New Caledonia, Loyalty Ids and Great Barrier Reef.

***Cirrhilabrus lanceolatus* Randall & Masuda**

*Cirrhilabrus lanceolatus* Randall & Masuda, 1991: 57, figs. 6-8 (Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Honshu to Ryukyu Ids.

***Cirrhilabrus lineatus* Randall & Lubbock**

*Cirrhilabrus lineatus* Randall & Lubbock, 1982: 6, pl. 1, fig. C (Mato Pass, off southern end of New Caledonia).

DISTRIBUTION: New Caledonia, Loyalty Ids, and Great Barrier Reef.

***Cirrhilabrus lubbocki* Randall & Carpenter**

*Cirrhilabrus lubbocki* Randall & Carpenter, 1980: 18, figs. 1A, 2-6 (Mactan Id, Cebu Prov., Philippines).

DISTRIBUTION: Philippines and Indonesia.

***Cirrhilabrus lunatus* Randall & Masuda**

*Cirrhilabrus lunatus* Randall & Masuda, 1991: 54, figs. 1-5 (Sesoko Id, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Ryukyu Ids and Ogasawara Ids.

***Cirrhilabrus luteovittatus* Randall**

*Cirrhilabrus luteovittatus* Randall, 1988: 203, pl. 1, figs. a-b; pl. 3, figs a-c (Enewetak Atoll, Marshall Ids).

DISTRIBUTION: Caroline and Marshall Ids.

***Cirrhilabrus melanomarginatus* Randall & Shen**

*Cirrhilabrus melanomarginatus* Randall & Shen, 1978: 14, pl. 2B (Mao Pi Tou, Taiwan).

*Neocirrhilabrus oxyurus* Cheng & Wang, 1979: 73 (China).

DISTRIBUTION: Taiwan, Philippines, and South China Sea.

***Cirrhilabrus morrisoni* Allen**

*Cirrhilabrus morrisoni* Allen, 1999: 120, figs. 1-4 (Hiberia Reef, western Timor Sea off northwestern Australia).

DISTRIBUTION: known only from the type locality.

***Cirrhilabrus punctatus* Randall & Kuitert**

*Cirrhilabrus punctatus* Randall & Kuitert, 1989: 44, figs. 1-7 (One Tree Id, Capricorn Group, Great Barrier Reef).

DISTRIBUTION: New South Wales, Great Barrier Reef, Papua New Guinea, Lord Howe Id, Fiji, and Tonga.

***Cirrhilabrus pylei* Allen & Randall**

*Cirrhilabrus pylei* Allen & Randall, 1996: 105, figs. 3-4 (Milne Bay Prov., Papua New Guinea).

DISTRIBUTION: Papua New Guinea.

***Cirrhilabrus randalli* Allen**

*Cirrhilabrus randalli* Allen, 1995a: 14, figs. 1-3 (Mermaid Reef, Rowley Shoals, Western Australia).

DISTRIBUTION: northwestern Australia.

***Cirrhilabrus rhomboidalis* Randall**

*Cirrhilabrus rhomboidalis* Randall, 1988: 215, pl. 2, figs. a-b; pl. 3, fig. 8 (Kwajalein Atoll, Marshall Ids).

DISTRIBUTION: Marshall Ids.

***Cirrhilabrus roseafascia* Randall & Lubbock**

*Cirrhilabrus roseafascia* Randall & Lubbock, 1982: 9, pl. 1, fig. D (Bulari Pass, south of Nouméa, New Caledonia).

DISTRIBUTION: New Caledonia.

***Cirrhilabrus rubrimarginatus* Randall**

*Cirrhilabrus rubrimarginatus* Randall, 1992a: 114, pl. 2 A-



C (Sesoko Id, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Ryukyu Ids to Vanuatu, Fiji, and Tonga.

***Cirrhilabrus rubripinnis* Randall & Carpenter**

*Cirrhilabrus rubripinnis* Randall & Carpenter, 1980: 23, figs. 9-10 (Caban Id, Batangas, Luzon Id, Philippines).

DISTRIBUTION: Philippines and Kalimantan, Borneo.

***Cirrhilabrus rubrisquamis* Randall & Emery**

*Cirrhilabrus rubrisquamis* Randall & Emery, 1983: 21, fig. 1 (Peros Banhos Atoll, Chagos Archipelago).

DISTRIBUTION: Chagos Archipelago and Maldives Ids.

***Cirrhilabrus rubriventralis* Springer & Randall**

*Cirrhilabrus rubriventralis* Springer & Randall, 1974: 52, figs. 4-5 (Elat, Israel, Gulf of Aqaba, Red Sea).

DISTRIBUTION: Red Sea to Oman and South Africa, with questionable records from Sri Lanka and Philippines (Randall, 1995a); Sumatra (R. H. Kuiter, pers. comm.).

***Cirrhilabrus sanguineus* Cornic**

*Cirrhilabrus sanguineus* Cornic, 1987: 140, fig. (Mauritius).

DISTRIBUTION: Mauritius.

***Cirrhilabrus scottorum* Randall & Pyle**

*Cirrhilabrus scottorum* Randall & Pyle, 1989: 114, figs. 1-5 (Papara, Tahiti, Society Ids).

DISTRIBUTION: Great Barrier Reef to Pitcairn Group.

***Cirrhilabrus solorensis* Bleeker**

*Cirrhilabrus solorensis* Bleeker, 1853f: 88 (Lawajong, Solor Id, Indonesia).

DISTRIBUTION: Indonesia.

***Cirrhilabrus temminckii* Bleeker**

*Cirrhilabrus temminckii* Bleeker, 1853i: 17 (Nagasaki).

DISTRIBUTION: western Australia to southern Japan.

***Cirrhilabrus tonozukai* Allen & Kuiter**

*Cirrhilabrus tonozukai* Allen & Kuiter, 1999: 137, figs. 6-8 (Tumbak Id, Banggai Ids, Indonesia).

DISTRIBUTION: Indonesia.

***Cirrhilabrus walindi* Allen & Randall**

*Cirrhilabrus walindi* Allen & Randall, 1996: 108, figs. 5-7 (New Britain Id, Bismarck Archipelago).

DISTRIBUTION: Papua New Guinea and Solomon Ids.

***Cirrhilabrus* sp 1**

DISTRIBUTION: Fiji.

***Cirrhilabrus* sp 2**

DISTRIBUTION: Palau.

REMARKS: to be described by J.R. Randall and R.L. Pyle.

***Cirrhilabrus* sp 3**

DISTRIBUTION: Samoa.

REMARKS: to be described by J.R. Randall and R.L. Pyle.

***Cirrhilabrus* sp 4**

DISTRIBUTION: Cook Islands.

REMARKS: to be described by J.R. Randall and R.L. Pyle.

***Cirrhilabrus* sp 5**

DISTRIBUTION: New Caledonia, Santa Cruz Ids, and Solomon Ids.

REMARKS: to be described by M.W. Westneat and J.T. Williams

**Genus *Clepticus* Cuvier**

*Clepticus* Cuvier, 1829: 261 (type-species, *Clepticus genizara* Cuvier, by monotypy).

Three species, two of which are undescribed (Ross Robertson, pers. comm.). Western and eastern Atlantic.

***Clepticus parrae* (Bloch & Schneider)**

*Brama parrae* Bloch & Schneider, 1801: 100 (Cuba).

*Clepticus genizara* Cuvier, 1829: 261 (Havana, Cuba).

DISTRIBUTION: Bermuda and North Carolina to Gulf of Mexico, Caribbean, West Indies, to Brazil.

***Clepticus* sp 1**

DISTRIBUTION: Brazil.

REMARKS: to be described by Rodrigo Moura

***Clepticus* sp 2**

REMARKS: a new species from São Tomé, Gulf of Guinea; to be described by Ross Robertson and John Heiser.

**Genus *Conniella* Allen**

*Conniella* Allen, 1983: 44 (type-species, *Conniella apterygia* Allen, by original designation).

One species.



### *Conniella apterygia* Allen

*Conniella apterygia* Allen, 1983: 44, figs. 1-2 (Bedwell Id, Clerke Reef, Rowley Shoals, Western Australia).

DISTRIBUTION: Rowley Shoals and Scott-Seringapatam Reefs, western Australia.

### Genus *Coris* Lacepède

*Coris* Lacepède (ex Commerson), 1801: 96 (type-species, *Coris aygula* Lacepède, by subsequent designation).

*Julis* Cuvier, 1814: 90 (type-species, *Labrus julis* Linnaeus, by absolute tautonymy).

*Aygula* Rafinesque, 1815: 87 (unneeded replacement for *Coris* Lacepède).

*Ichtycallus* Swainson, 1839: 173, 232 (type-species, *Julis semipunctatus* Rüppell, by subsequent designation, proposed as a subgenus).

*Neanis* Gistel, 1848: IX (type-species, *Labrus julis* Linnaeus, unneeded replacement for *Julis* "Lacep." [Cuvier, 1814]).

*Hemicoris* Bleeker, 1862: 411 (type-species, *Halichoeres variegatus* Rüppell, by original designation).

*Ctenocorissa* Whitley 1931a: 323 (type-species, *Labrus pictus* Bloch & Schneider, by original designation).

*Tiricoris* Whitley, 1955: 111 (type-species, *Cymolutes sandageri* Hector, by original designation).

Twenty-six species; Indo-Pacific species revised by Randall (1999); two eastern Atlantic species; 5 undescribed species in the Indo-Pacific region.

### *Coris atlantica* Günther

*Coris atlantica* Günther, 1862: 197 (Sierra Leone).

*Coris hupferi* Fischer, 1885: 73 (Nifao, Liberia).

*Coris guineensis* Bleeker, 1863: 31, pl. 5, fig. 2 (Guinea).

DISTRIBUTION: tropical eastern Atlantic.

REMARKS: *Coris atlantica* is a distinct species ranging from Cape Verde Islands to Liberia (A. Brito and P. Wirtz, pers. comm.). The species is readily confused with the sympatric *Coris julis*; it differs from *C. julis* in having longer pelvic fins, more suborbital pores, and configuration of the lateral-line tubules. Two specimens from São Tomé collected by Ross Robertson also show distinct colour variation. These specimens and colour photographs are deposited in the U.S. National Museum of Natural History.

### *Coris auricularis* (Valenciennes)

*Julis auricularis* Val., 1839: 489 (King George Sound, Western Australia).

DISTRIBUTION: southwestern Australia.

### *Coris aurilineata* Randall & Kuitert

*Coris aurilineata* Randall & Kuitert, 1982: 164, pl. 1, fig. 1B-C, fig. 2 (Keppel Id, Queensland, Australia).

DISTRIBUTION: New South Wales to Great Barrier Reef.

### *Coris aygula* Lacepède

*Coris aygula* Lacepède, 1801: 96, 97, pl. 4, fig. 1 (Mauritius).

*Coris angulatus* Lacepède, 1801: 96, 99, pl. 4 (no locality).

*Labrus cingulum* Lacepède, 1801: 448, 517, pl. 28, fig. 1 (Mauritius).

*Labrus aureomaculatus* Bennett [J.W.], 1830: pl. 20 (Sri Lanka).

*Julis ruppelii* Bennett, 1831: 128 (Gulf of Setic, Red Sea).

*Julis gibbifrons* Quoy & Gaimard, 1834: 707, pl. 19, fig. 3 (Mauritius).

*Julis semipunctatus* Rüppell, 1835: 12, pl. 3, fig. 3 (Mohila, Red Sea).

*Julis coris* Val., 1839: 491; *nomen novum* for *Coris aygula* Lacepède; preoccupied by *Julis coris* Lesson, 1828 [= *Thalassoma quinquevittatum* (Lay & Bennett, 1839)].

*Coris cyanea* Macleay, 1883a: 588 (New Guinea).

*Coris variegata* Ramsay & Ogilby, 1887a: 131 (Vanuatu).

*Coris imbris* Tanaka, 1918: 521, pl. 138, fig. 386 (Japan).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### *Coris ballieui* Vaillant & Sauvage

*Coris ballieui* Vaillant & Sauvage, 1875: 284 (Hawaiian Ids).

*Coris (Hemicoris) rosea* Vaillant & Sauvage, 1875: 286 (Hawaiian Ids).

*Coris argenteostriata* Steindachner, 1900: 176 (Honolulu).

*Coris schauinslandii* Steindachner, 1900: 177 (Honolulu).

*Hemicoris keleipionis* Jenkins, 1901: 51, fig. 6 (Honolulu).

DISTRIBUTION: Hawaiian Ids.

### *Coris batuensis* (Bleeker)

*Julis (Halichoeres) batuensis* Bleeker, 1856f: 240 (Batu Ids, Indonesia).

*Julis (Halichoeres) schroederii* Bleeker, 1858a: 3 (Ambon Id, Moluccas Ids, Indonesia).

*Coris pallida* MacLeay, 1881: 100 (Queensland, Australia).

*Coris papuensis* Macleay, 1883b: 275 (Papua New Guinea).

*Coris coronata* De Vis, 1885: 883 (Queensland, Australia).

*PlatyGLOSSUS punctatus* De Vis, 1885: 885 (Murray Id, Queensland, Australia).

DISTRIBUTION: New South Wales to southern Japan and Ogasawara Ids, east to Micronesia, west to the Maldives and Chagos Archipelago.

### *Coris bulbifrons* Randall & Kuitert

*Coris bulbifrons* Randall & Kuitert, 1982: 168, pl. 2, figs. A-C; figs. 3-5 (Lord Howe Id, Australia).

DISTRIBUTION: New South Wales, Lord Howe, Norfolk Id.

### *Coris caudimacula* (Quoy & Gaimard)

*Julis caudimacula* Quoy & Gaimard, 1834: 710, pl. 15, fig. 2 (Mauritius).



*Halichoeres multicolor* Rüppell, 1835: 15, pl. 4, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

DISTRIBUTION: Indian Ocean, Red Sea to South Africa, Indonesia and northwestern Australia.

***Coris centralis* Randall**

*Coris centralis* Randall, 1999b: 21, fig. 2; pls. 5C,D; 17D (Tabuaeran [Fanning Id], Line Islands).

DISTRIBUTION: Line Ids, central Pacific Ocean

***Coris cuvieri* (Bennett)**

*Julis cuvieri* Bennett, 1831: 128 (Mauritius).

*Julis stellatus* Val., 1839: 499 (Mauritius).

*Coris gaimard africana* Smith, 1957b: 119, Pls. 1A-2A; fig. 1 (Mahé, Seychelles).

DISTRIBUTION: Indian Ocean: Red Sea to South Africa, Sri Lanka and all western Indian Ocean islands.

REMARKS: *Coris gaimard africana* Smith was treated as *Coris africana* by Randall, 1992b, 1995.

***Coris debueni* Randall**

*Coris debueni* Randall, 1999b: 26, fig. 3; pls. 6 C,D; 7 A,B (Hanga Roa, west coast of Easter Id.).

DISTRIBUTION: Easter Island.

***Coris dorsomacula* Fowler**

*Coris dorsomacula* Fowler, 1908: 436, fig. 8 (Victoria, Australia).

DISTRIBUTION: western Pacific.

***Coris flavovittata* (Bennett)**

*Julis flavovittatus* Bennett, 1828b: 36 (Hawaiian Ids).

*Coris eydouxii* Val., 1839: 445 (Hawaiian Ids).

*Coris lepomis* Jenkins, 1901: 48, fig. 4 (Honolulu).

DISTRIBUTION: Hawaiian Ids.

REMARKS: the Philippines record of (Fowler and Bean, 1928) is based on a misidentification of *Coris pictoides*.

***Coris formosa* (Bennett)**

*Labrus formosus* Bennett [J.W.], 1830: pl. 16 (Sri Lanka).

*Coris frerei* Playfair & Günther, 1867: 101, pl. 13 (Zanzibar).

*Coris halei* Day, 1888: 803 (Sri Lanka).

DISTRIBUTION: Western Indian Ocean, Red Sea to South Africa and Sri Lanka.

REMARKS: *Labrus formosus* Shaw, 1803 was a subsequent reclassification of the species originally named *Sparus formosus* Shaw and Nodder, 1790, which is a synonym of *Labrus mixtus* Linnaeus, 1758. Hence, *Labrus formosus* Bennett is not a homonym.

***Coris gaimard* (Quoy & Gaimard)**

*Julis gaimard* Quoy & Gaimard, 1824: 265, pl. 54, fig. 1 (Maui, Hawaiian Ids).

*Julis greenovii* Bennett, 1828b: 37 (Hawaiian Ids).

*Julis ganymede* Bennett [J.W.], 1830: pl. 16 (Sri Lanka).

*Julis (Julis) leucorhynchus* Bleeker, 1856b: 57 (Manado, Sulawesi [Celebes], Indonesia).

*Coris pulcherrima* Günther, 1862: 200 (Ambon, Indonesia).

*Coris greenoughii* Günther, 1861: 387 (emendation of *Julis greenovii* Bennett).

*Coris gaimard speciosa* Fowler, 1946: 171, fig. 37 (Aguni-Shima, Ryukyu Ids, Japan).

DISTRIBUTION: Indo-Pacific, Christmas and Cocos-Keeling Ids (eastern Indian Ocean) to Japan, Australia, Hawaiian Ids, Society Ids and Tuamotus (but not the Marquesas where there is a closely related undescribed species).

REMARKS: *Julis ganymede* Bennett 1830 is a new synonym of *Coris gaimard* (Eschmeyer & Pethiyagoda, 1996).

***Coris hewetti* Randall**

*Coris hewetti* Randall, 1999b: 43, figs. 4,5; pls. 10 C,D; 11A, 20 B-F (Anabo Bay, Nuku Hiva, Marquesas Ids.)

DISTRIBUTION: Marquesas Ids.

***Coris julis* (Linnaeus)**

*Labrus julis* Linnaeus, 1758: 284 (Genoa, Italy).

*Labrus paroticus* Linnaeus, 1758: 284 (probably Mediterranean Sea).

*Labrus perdica* Forsskål 1775: 34 (Istanbul, Turkey).

*Labrus keslik* Lacepède 1801: 453, 523 (Istanbul, Turkey; unneeded replacement for *Labrus perdica* Forsskål).

*Labrus infuscus* Walbaum 1792: 249 (Mediterranean Sea).

*Labrus subfuscus* Bloch & Schneider 1801: 259 (Mediterranean Sea; preoccupied by *Labrus subfuscus* Walbaum, 1792 [= *Tautoga onitis* (Linnaeus, 1758)]).

*Labrus cettii* Rafinesque 1810b: 23, 54 (Sicily, Italy).

*Labrus giofredi* Risso, 1810: 228, pl. 9, fig. 23 (Nice).

*Julis mediterranea* Risso, 1827: 309 (Nice, France; *nomen novum* for *Labrus julis* Linnaeus)

*Julis speciosa* Risso, 1827: 309, 311, pl. 9, fig. 20 (Nice).

*Julis vulgaris* Fleming, 1828: 210 (Cornwall, England).

*Julis vulgaris* Val., 1839: 361, pl. 384 preoccupied by *Julis vulgaris* Fleming, 1828).

*Julis festiva* Val., 1839: 374 (Brest, France).

*Julis melanura* Lowe, 1839: 85 (Madeira).

*Coris (Hologymnosus) taeniatus* Steindachner, 1863b: 1189, pl. 2, fig. 1 ("Java" [probably eastern Atlantic]).

*Julis azorensis* Fowler, 1919: 204, fig. 2 (Fayal Id, Azores).

DISTRIBUTION: Eastern Atlantic from Sweden to Cape Lopez, Gabon, including the Azores, Madeira, Canary Ids, Mediterranean and southern Black Sea.

REMARKS: Synonymy from Gomon and Forsyth (1990). *Julis vulgaris* Valenciennes is based on several specimens described by Rondelet, Salviani, Aldrovandi, Willughby and on *Labrus* n.7 of Artedi used by Linnaeus to describe his *Labrus julis* (Bauchot, 1963: 75). *Labrus cettii* is a junior synonym according to Quignard (1966)



and Tortonese (1970). *Labrus infuscus* Walbaum was described from the Mediterranean with D IX,12; P 13; A III,12; it is a new synonym of *Coris julis*. The two syntypes of *Coris taeniatus* were examined by the first author at the Naturhistorische Museum in Vienna and found to be *C. julis*; the locality "Java" given by Steindachner is obviously erroneous. The specimens may have been from a large collection made in the Canary Ids that came to the Museum at that time. The larger of the two syntypes, NMW 25675, 114 mm SL, is here designated as the lectotype, a decision made with the approval of the curator, Dr. Ernst Miksch.

***Coris marquesensis* Randall**

*Coris marquesensis* Randall, 1999: 49, fig. 6; pls 11B-D; 20 G,H (Marquesienne Bay, Nuku Hiva, Marquesas Ids).

DISTRIBUTION: Marquesas Ids, South Pacific Ocean.

***Coris musume* (Jordan & Snyder)**

*Julis musume* Jordan & Snyder, 1904: 236, pl. 61 (Japan).

DISTRIBUTION: Southern Japan, Izu Ids and Taiwan.

***Coris nigrotaenia* Mee & Hare**

*Coris nigrotaenia* Mee & Hare, 1995: 247 (Oman).

DISTRIBUTION: southern Oman.

***Coris picta* (Bloch & Schneider)**

*Labrus pictus* Bloch & Schneider, 1801: 251, pl. 55 (New South Wales, Australia).

*Coris semicineta* Ramsay, 1883: 301 (New South Wales).

DISTRIBUTION: southeastern Australia, New Caledonia, Kermadec, Lord Howe, Norfolk and New Zealand.

***Coris pictoides* Randall & Kuiter**

*Coris pictoides* Randall & Kuiter, 1982: 160, pl. 1, fig. A; fig. 1 (Bunut, Tioman Id, Malaysia).

DISTRIBUTION: New South Wales to northwest Australia and Philippines.

***Coris roseoviridis* Randall**

*Coris roseoviridis* Randall, 1999b: 59, fig. 6; pls. 13 C,D; 14 A (Karapoto Iti Islet, Rapa).

DISTRIBUTION: Pitcairn Ids, Mangareva, Rapa, Austral Ids, and Raratonga, Cook Ids.

***Coris sandageri* (Hector)**

*Cymolutes sandeyeri* Hector, 1884: 323 (Tiritiri Id, Auckland, New Zealand; incorrect original spelling)

*Coris rex* Ramsay & Ogilby, 1886: 851 (off Bondi, New South Wales, Australia).

*Cymolutes sandageri*: Sandager, 1888: 130 (emendation).

*Coris trimaculata* Ogilby, 1888: 992 (Norfolk Id).

DISTRIBUTION: southeastern Australia and New Zealand.

REMARKS: Hector (1884) stated that the specimen was "Collected by Mr. Sandeyer"; however this man's name was F.S. Sandager. Sandager (1888: 130) in a paper on fishes of Mokohinau Islands, lists *Cymolutes sandageri*, with information on its presence, abundance, spawning, but nothing on the name change. Hutton (1890: 282) followed Hector in using *sandeyeri*, but later, Thompson (1892), Phillips (1927), and Paulin et al. (1989) report *sandageri*. Phillips (1927) stated "sandeyeri" is obviously a misprint for "sandageri", the species being named after the lighthouse-keeper, Sandager". G.S. Hardy (1990: 11) reports "*Cymolutes sandeyeri* Hector, 1884: 323 = *Coris sandageri* (Hector, 1884)".

We have identified the only remaining syntype of *Coris trimaculata*, AMS I.1403, 92 mm SL, as a juvenile *Coris sandageri*.

***Coris variegata* (Rüppell)**

*Halichoeres variegatus* Rüppell, 1835: 14, pl. 4, fig. 2 (Massawa, Eritrea, Red Sea).

DISTRIBUTION: Red Sea.

REMARKS: *Coris variegata* is often wrongly used in the Indo-West Pacific for the very similar *Coris batuensis*.

***Coris venusta* Vaillant & Sauvage**

*Coris (Hemicoris) venusta* Vaillant & Sauvage, 1875: 285 (Hawaiian Ids).

*Hemicoris remedium* Jenkins, 1901: 49, fig. 5 (Honolulu).

DISTRIBUTION: Hawaiian Ids.

**Genus *Ctenolabrus* Valenciennes**

*Ctenolabrus* Val., 1839: 223 (type-species, *Labrus rupestris* Linnaeus, by subsequent designation).

*Cynaedus* Swainson, 1839: 229 (type-species, *Labrus rupestris*, by subsequent designation, proposed as a subgenus).

One species (Bauchot & Quignard, 1973).

***Ctenolabrus rupestris* (Linnaeus)**

?*Labrus suillus* Linnaeus, 1758: 285 (West Europe).

*Labrus rupestris* Linnaeus, 1758: 286 (no locality).

*Labrus bergsnylstrus* Lacepède, 1801: 439 (North Atlantic).

*Sparus carudse* Lacepède, 1802: 49, 148 (Norway).

*Labrus cinereus* Pallas, 1814: 267 (*Maris nigri*).

*Ctenolabrus marginatus* Val., 1839: 232 (France).

*Ctenolabrus acutus* Val., 1839: 235 (Malaga, Spain).

DISTRIBUTION: Eastern Atlantic and Mediterranean.

REMARKS: *Labrus suillus* is a probable synonym (Quignard, 1966). The combination *Ctenolabrus suillus* has been used by some authors (Jordan, 1890: 623; Lozano Rey, 1952: 448, pl. 37; Bauchot, 1963: 39; Costa, 1991).



## Genus *Cymolutes* Günther

*Cymolutes* Günther, 1861: 387 (type-species, *Julis praetextata* Quoy & Gaimard, by subsequent designation).

Previously considered a monotypic genus (Bauchot, 1963); 3 species are presently recognized (Randall, 1986a; Randall et al., 1990). Indo-Pacific.

### *Cymolutes lecluse* (Quoy & Gaimard)

*Xyrichthys lecluse* Quoy & Gaimard, 1824: 284, pl. 65, fig. 1 (Hawaiian Ids).

*Xyrichthys microlepidotus* Val., 1840: 52 (Hawaiian Ids).

*Novacula (Novacula) microlepis* Vaillant & Sauvage, 1875: 284 (Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

### *Cymolutes praetextatus* (Quoy & Gaimard)

*Julis praetextata* Quoy & Gaimard, 1834: 712, pl. 15, fig. 4 (Mauritius).

*Novacula xyrichthyoides* Bleeker, 1856g: 488 (East Indies).  
*?Julis kuelkuel* Montrouzier, 1857: 473 (Woodlark Id).

DISTRIBUTION: Indo-Pacific.

### *Cymolutes torquatus* (Valenciennes)

*Xyrichthys torquatus* Val., 1840: 54, pl. 392 ("Suriname" [actually East Indies]).

*Xyrichthys novaculoides* Bleeker, 1853a: 122 (Indonesia).

*Cymolutes tateyamaensis* Sakamoto, 1930: 11, fig. 1 (Japan).

DISTRIBUTION: Indo-Pacific.

## Genus *Decodon* Günther

*Decodon* Günther, 1861: 384 (type-species, *Cossyphus puellaris* Poey, by monotypy).

*Pariolanthus* Smith, 1968: 343 (type-species, *Lepidaplois grandisquamis*, by original designation, proposed as a subgenus).

Four species (Randall, 1986a; Gomon, 1997). Atlantic, Indian and Pacific Oceans.

### *Decodon grandisquamis* (Smith)

*Lepidaplois (Pariolanthus) grandisquamis* Smith, 1968: 343, figs. 1-2 (off Ponte de Barra Falsa, Mozambique).

DISTRIBUTION: western Indian Ocean.

### *Decodon melasma* Gomon

*Decodon melasma* Gomon, 1974b: 207, fig. 1 (3 mi. off Buena Vista, Gulf of California, Mexico).

DISTRIBUTION: eastern Pacific.

### *Decodon pacificus* (Kamohara)

*Verreo pacificus* Kamohara, 1952: 54, fig. 51 (Mimase).

DISTRIBUTION: Japan.

### *Decodon puellaris* (Poey)

*Cossyphus puellaris* Poey, 1860: 210 (Havana, Cuba).

DISTRIBUTION: Bermuda, North Carolina to Florida, Gulf of Mexico, West Indies to Brazil.

## Genus *Diproctacanthus* Bleeker

*Diproctacanthus* Bleeker, 1862a: 415 (type-species, *Labroides xanthurus* Bleeker, by original designation).

One species.

### *Diproctacanthus xanthurus* (Bleeker, 1856)

*Labroides xanthurus* Bleeker, 1856b: 52 (Indonesia).

DISTRIBUTION: Indonesia, New Guinea, Philippines, Palau.

## Genus *Doratonotus* Günther

*Doratonotus* Günther, 1862: 124 (type-species, *Doratonotus megalepis* Günther, by subsequent monotypy).

*Antonichthys* Bauchot & Blanc, 1961: 50 (type-species, *A. wetmorelloides* Bauchot & Blanc, by monotypy).

One species.

### *Doratonotus megalepis* Günther

*Doratonotus megalepis* Günther, 1862: 125 (St. Christopher, Leeward Ids, West Indies).

*Doratonotus thalassinus* Jordan & Gilbert, 1884: 28 (Key West, Florida, U.S.A.).

*Doratonotus decoris* Evermann & Marsh, 1899: 354 (Ponce, Puerto Rico).

*Doratonotus boekei* Metzelaar, 1919: 107, fig. 31 (Curaçao and Bonaire).

*Antonichthys wetmorelloides* Bauchot & Blanc, 1961: 50, fig. 3a-c (Rolas Id, São Tomé, eastern Atlantic).

DISTRIBUTION: Bermuda, Florida to Venezuela; West Indies, and off São Tomé in the eastern Atlantic.

## Genus *Dotalabrus* Whitley

*Dotalabrus* Whitley, 1930: 251 (type-species, *Cheilinus aurantiacus* Castelnau, by original designation).

Two species (Russell, 1988); Australia.

### *Dotalabrus alleni* Russell

*Dotalabrus* sp. Allen, 1985: figs. 304-305 (Rottnest Id, Western Australia).

*Dotalabrus alleni* Russell, 1988: 10, fig. 2, pl. 1, c-d (Carnac



Id, Cockburn Sound, Western Australia).

DISTRIBUTION: southwestern Australia.

***Dotalabrus aurantiacus* (Castelnau)**

*Cheilinus aurantiacus* Castelnau, 1872b: 245 (Adelaide).

*Labrichthys elegans* Steindachner, 1883: 195 (St. Vincent Gulf, South Australia).

*Labrichthys macleayi* Herzenstein, 1896: 10 (St. Vincent Gulf, South Australia).

DISTRIBUTION: southern and southwestern Australia.

**Genus *Epibulus* Cuvier**

*Epibulus* Cuvier, 1815b: 111 (type-species, *Sparus insidiator* Pallas, by monotypy).

Two species (1 undescribed); Indo-Pacific.

***Epibulus insidiator* (Pallas)**

*Sparus insidiator* Pallas, 1770: 41, pl. 5, fig. 1 (Java, Indonesia).

*Epibulus insidiator* var. *flava* Bleeker, 1849a: 40 (Java).

*Epibulus insidiator* var. *fusca* Bleeker, 1849a: 40 (Java).

*Epibulus striatus* Day, 1871: 697 (Andaman Ids).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Hawaiian Ids.

***Epibulus* sp 1**

*Epibulus* sp. Myers, 1989: 180.

DISTRIBUTION: Palau to Philippines.

REMARKS: to be described by J.E. Randall and B.W. Carlson.

**Genus *Eupetrichthys* Ramsay & Ogilby**

*Eupetrichthys* Ramsay & Ogilby, 1888: 631 (type-species, *E. angustipes* Ramsay & Ogilby, by monotypy).

One species.

***Eupetrichthys angustipes* Ramsay & Ogilby**

*Eupetrichthys angustipes* Ramsay & Ogilby, 1888: 632 (Rose Bay, Port Jackson, New South Wales, Australia).

DISTRIBUTION: Southeastern and western Australia.

**Genus *Frontilabrus* Randall & Condé**

*Frontilabrus* Randall & Condé, 1989: 90 (type-species, *F. caeruleus* Randall & Condé, by monotypy).

One species.

***Frontilabrus caeruleus* Randall & Condé**

*Frontilabrus caeruleus* Randall & Condé, 1989: 90, figs. 1-3 (Maldive Ids).

DISTRIBUTION: Maldive Ids.

**Genus *Gomphosus* Lacepède**

*Gomphosus* Lacepède, 1801: 100 (type-species, *Gomphosus caeruleus* Lacepède, by subsequent designation).

*Acarauna* Sevestianoff, 1802: 357, 364 (type-species, *Acarauna longirostris* Sevestianoff, by monotypy).

Two species (Randall, 1986a); Indo-Pacific.

***Gomphosus caeruleus* (Lacepède)**

*Gomphosus caeruleus* Lacepède, 1801: 100, 101, pl. 5, fig. 1 (Mauritius).

*Acarauna longirostris* Sevestianoff, 1802: 359 (Brazil?; evidently erroneous).

*Gomphosus fuscus* Bennett [J.W.], 1828: pl. 3 (Sri Lanka).

*Gomphosus ornatus* Bennett, 1830: 690 (Indonesia).

*Gomphosus viridis* Bennett [J.W.], 1830: pl. 30 (Sri Lanka; preoccupied by *Gomphosus viridis* Cuvier, 1829 [= *G. varius* Lacepède, 1801]).

*Gomphosus melanotus* Bleeker, 1855d: 457 (Cocos-Keeling Ids, Indian Ocean).

*Gomphosus caeruleus klunzingeri* Klausewitz, 1962: 12, pl. 1, fig. 3 (Al-Quseir [formerly Kosseir], Egypt, Red Sea).

DISTRIBUTION: Indian Ocean, Red Sea to South Africa, Oman, Maldives, Chagos and Cocos-Keeling Ids. Two subspecies: *G. caeruleus caeruleus*, Indian Ocean, and *G. caeruleus klunzingeri*, Red Sea.

***Gomphosus varius* (Lacepède)**

*Gomphosus varius* Lacepède, 1801: 100, 105, pl. 5, fig. 2 (Tahiti, Society Ids).

*Gomphosus tricolor* Quoy & Gaimard, 1824: 280, pl. 55, fig. 2 (Maui, Hawaiian Ids).

*Gomphosus pectoralis* Quoy & Gaimard, 1824: 282 (Maui, Hawaiian Ids).

*Gomphosus viridis* Cuvier, 1829: 261 (no locality given).

*Gomphosus cepedianus* Val., 1840: 18 (Hawaiian Ids).

*Gomphosus fuscus* Val., 1840: 25 (Mauritius).

*Gomphosus nasutus* Parkinson in Cuvier & Valenciennes, 1840: 27 (Tahiti, Society Ids).

*Gomphosus notostigma* Bleeker, 1862b: 304 (Java).

*Gomphosus sandvicensis* Günther, 1862: 194 (Hawaiian Ids).

*Gomphosus undulatus* Streets, 1877: 85 (Line Ids).

*Gomphosus pacificus* Seale, 1901a: 94 (Guam).

*Thalassoma stuckiae* Whitley, 1959: 19, fig. 7 (Nouméa, New Caledonia).

DISTRIBUTION: eastern Indian Ocean to central Pacific, including Pitcairn Group.

**Genus *Halichoeres* Rüppell**

*Halichoeres* Rüppell, 1835: (10) 14 (type-species, *H. bimaculatus* Rüppell, by subsequent designation).



*PlatyGLOSSUS* Bleeker (ex Klein), 1862a: 411 (type-species, *Julis annulatus* Valenciennes, by original designation).  
*Hemijulis* Swainson, 1839:173, 228 (type-species, *Labrus guttatus* Bloch, by subsequent designation).  
*Hemijulis* Bonaparte, 1841: punctata 156, fasc. 30 (incorrect subsequent spelling).  
*Hemitaughta* Bleeker, 1862a: 413 (type-species, *Labrus centiquadrus* Lacepède, by original designation).  
*Guentheria* Bleeker, 1862a: 413 (type-species, *Halichoeres caeruleovittatus* Rüppell, by original designation).  
*Pseudojulis* Bleeker, 1862a: 412 (type-species, *Julis (Julis) girardi* Bleeker, by original designation).  
*Choerajulis* Gill, 1862: 142 (proposed as a replacement name for *Halichoeres* Rüppell).  
*Pusa* Jordan & Gilbert, 1879: 374 (type-species, *Choerajulis grandisquamis* Gill, by monotypy, preoccupied by Scopoli 1777 in Mammalia).  
*Emmeekia* Jordan & Evermann, 1896: 413 (type-species, *Pseudojulis venustus* Jenkins & Evermann, by original designation).  
*Iridio* Jordan & Evermann, 1896: 412 (type-species, *Labrus radiatus* Linnaeus, by original designation).  
*Julidio* Jordan & Evermann, 1896: 413 (type-species, *Pseudojulis adustus* Gilbert, by original designation).  
*Octocynodon* Fowler, 1904: 535 (type-species, *Julis miniatus* Valenciennes, by original designation).  
*Halinanodes* Whitley, 1931b: 113 (type-species, *Halichoeres leucostigma* Fowler & Bean, by original designation).  
*Artisia* de Beaufort, 1939: 17 (type-species, *Artisia festiva* de Beaufort, by monotypy).

Indo-Pacific, western Atlantic and eastern Pacific. *Emmeekia* is a synonym according to W. Bussing (pers. comm.). *Halichoeres* is in need of revision. On the basis of differences in larval and juvenile features a separate genus may be required for four eastern Pacific species formerly assigned to *Pseudojulis* (*adustus*, *inornatus*, *melanotus* and *venustus*) (Grove & Lavenberg, 1997: 488). With about 70 species, of which 4 are undescribed, *Halichoeres* is the largest genus of the Labridae. Randall and Smith (1982) recognized 15 species from the western Indian Ocean. Randall (1981c) discussed the status of some species from the Pacific. Nine species are known from the western Atlantic (Randall & Böhlke, 1965); 61 species are known from the Indo-Pacific region.

#### ***Halichoeres adustus* (Gilbert)**

*Pseudojulis adustus* Gilbert, 1890: 66 (Socorro Id, Revilla Gagedo [Revillagigedo] Ids, off western Mexico).

DISTRIBUTION: Revillagigedo Ids and Isla del Coco.

#### ***Halichoeres aestuaricola* Bussing**

*Iridio bimaculata* Wilson, 1916: 68 (mouth of Rio Dagua at Bonaventura, Colombia).

*Halichoeres aestuaricola* Bussing, 1972: 4, fig. 1 *nomen novum* for *Iridio bimaculata* Wilson 1916, secondarily preoccupied by *Halichoeres bimaculatus* Rüppell 1835.

DISTRIBUTION: Gulf of California to Colombia.

#### ***Halichoeres argus* (Bloch & Schneider)**

*Labrus guttatus* Bloch, 1791: 149, pl. 287, fig. 2 (no locality; preoccupied by *Labrus guttatus* Bonnaterre, 1788 and *Labrus guttatus* Gmelin, 1789 [= *Symphodus ocellatus* (Forsskål, 1775)]).

*Labrus argus* Bloch & Schneider, 1801: 263 (Australia).

*Labrus guttulus* Lacepède, 1801: 446, 514 (incorrect subsequent spelling or emendation of *Labrus guttatus*).

*Julis argus* Bennett 1828a: 577, pl. 13, fig. 7 (Indonesia).

*Julis punctulatus* Val., 1839: 483 ([Indonesia]; based on Renard, fol. 21, n. 115).

*Julis (Halichoeres) polyophthalmus*; Bleeker, 1852f: 731 (Lepar Id, western Sumatra, Indonesia).

*Julis (Halichoeres) leparensis* Bleeker, 1852f: 730 (Lepar Id, western Sumatra, Indonesia).

*PlatyGLOSSUS reticulatus* Cartier, 1874: 104 (Philippines).

*Halichoeres fijiensis* Herre, 1935: 410 (Ovalau, Fiji Ids).

DISTRIBUTION: western Pacific.

REMARKS: *Julis punctulatus* is a synonym (Pietsch, 1995).

#### ***Halichoeres bathyphilus* (Beebe & Tee-Van)**

*Iridio bathyphilus* Beebe & Tee-Van, 1932: 117 (1 mi. south of Nonsuch Id, Bermuda).

DISTRIBUTION: Bermuda, North Carolina, northeastern Gulf of Mexico, Yucatan and southern Brazil.

#### ***Halichoeres bicolor* (Bloch & Schneider)**

*Labrus bicolor* Bloch & Schneider, 1801: 267 (no locality).

*Julis (Halichoeres) margaritophorus* Bleeker, 1853d: 487 (Batavia [Jakarta], Indonesia).

*Julis (Halichoeres) hyrtlil* Bleeker, 1856b: 60 (Makassar [Ujung Pandang], Sulawesi [Celebes], Indonesia).

*Julis (Halichoeres) cantori* Bleeker, 1861a: 70 (Malaysia).

*PlatyGLOSSUS bifasciatus* Steindachner, 1866a: 477, pl. 5, fig. 2 (Hong Kong).

*PlatyGLOSSUS pseudogramma* Cartier, 1874: 103 (Ubay, Bohol Id, Philippines).

*PlatyGLOSSUS bilineatus* Karoli, 1882: 174 (*lapsus calami* for *bifasciatus*).

?*PlatyGLOSSUS xanti* Karoli, 1882: 174 (Singapore); probably a juvenile *Halichoeres bicolor*.

DISTRIBUTION: Indo-Malayan region to Sri Lanka; a Christmas Id record is doubtful.

#### ***Halichoeres binotopsis* Bleeker**

*Julis (Halichoeres) binotopsis* Bleeker, 1849b: 7 (Boleling, northern Bali, Indonesia).

*Halichoeres* sp. 2 Kuitert, 1992: 179.

DISTRIBUTION: Indonesia.

#### ***Halichoeres biocellatus* Schultz**

*Halichoeres biocellatus* Schultz, in Schultz et al., 1960: 233, fig. 104 (Arjii Id, Bikini Atoll, Marshall Ids).



DISTRIBUTION: southern Japan to western Australia, Fiji and Micronesia.

***Halichoeres bivittatus* (Bloch)**

*Labrus bivittatus* Bloch, 1791: 133, pl. 284, fig. 1 (Martinique Id, West Indies).

*Labrus psittaculus* Lacepède, 1801: 452, 522, pl. 16, fig. 2 (America [Martinique Id, West Indies]).

*Labrus multicostatus* Gronow in Gray, 1854: 81 (Carolinas, U.S.A.).

*Julis humeralis* Poey, 1860: 212 (Cuba).

*Choerojulius grandisquamis* Gill, 1863: 206 (North Carolina, U.S.A.)

*Choerojulius arangoi* Poey, 1876: 151 [109], pl. 7 [4], fig. 1 (Havana, Cuba).

*PlatyGLOSSUS florealis* Jordan & Gilbert, 1882c: 287 (Laguna Grande, Florida, U.S.A.).

DISTRIBUTION: Bermuda, North Carolina to Brazil.

***Halichoeres bleekeri* (Steindachner & Döderlein)**

*PlatyGLOSSUS bleekeri* Steindachner & Döderlein, 1887: 275 (Tokyo, Japan).

*Halichoeres tremebundus* Jordan & Snyder, 1902: 639, fig. 8 (Hiroshima, Japan).

DISTRIBUTION: Honshu to Philippines.

REMARKS: *H. bleekeri* is here treated as distinct from the species the Japanese have been calling *H. tenuispinis* (Randall, 1999d).

***Halichoeres brownfieldi* (Whitley)**

*Choerojulius brownfieldi* Whitley, 1945: 28, fig. 13 (Garden Id, off Fremantle, Western Australia).

DISTRIBUTION: western Australia.

***Halichoeres caudalis* (Poey)**

*Julis caudalis* Poey, 1860: 213 (Havana, Cuba).

DISTRIBUTION: North Carolina to northern South America.

***Halichoeres chierchiae* Caporiacco**

*Halichoeres chierchiae* Caporiacco, 1947: 205, fig. 3 (Gulf of Panama, eastern Pacific).

DISTRIBUTION: Gulf of California to Panama.

***Halichoeres chlorocephalus* Kuitert & Randall**

*Halichoeres chlorocephalus* Kuitert & Randall, 1995: 110, figs. 5-8 (Nagada, Madang Prov., Papua New Guinea).

DISTRIBUTION: Papua New Guinea.

***Halichoeres chloropterus* (Bloch)**

*Labrus chloropterus* Bloch, 1791: 151, pl. 288 (Japan).

*Labrus gymnocephalus* Bloch & Schneider, 1801: 251 (no locality).

*Julis (Halichoeres) cuvieri* Bleeker, 1847: 160 (Batavia [Jakarta], Indonesia; preoccupied by *Julis cuvieri* Bennett, 1831 [= *Coris cuvieri*])

*Julis (Halichoeres) modestus* Bleeker, 1847: 160 (Batavia [Jakarta], Indonesia).

*Halichoeres bleekeri* Günther, 1861: 386 *nomen novum* for *Julis cuvieri* Bleeker, 1847.

*PlatyGLOSSUS guttulatus* Macleay, 1883a: 587 (New Guinea).

DISTRIBUTION: Philippines to Solomon Ids.

***Halichoeres chrysus* Randall**

*Halichoeres chrysus* Randall, 1981c: 416, figs. 1-2 (Sandfly Passage, Florida Id, Solomon Ids).

DISTRIBUTION: western Pacific to Marshall Ids and Caroline Ids; also Rowley Shoals (western Australia) and Christmas Id (eastern Indian Ocean).

***Halichoeres cosmetus* Randall & Smith**

*Halichoeres cosmetus* Randall & Smith, 1982: (3)15, pl. 6, fig. C, pl. 7, figs. A-B (North Male Atoll, Maldives).

DISTRIBUTION: western Indian Ocean.

***Halichoeres cyanocephalus* (Bloch)**

*Labrus cyanocephalus* Bloch, 1791: 139, pl. 286 (no locality).

*Julis dimidiatus* Agassiz in Spix & Agassiz, 1831: 96, pl. 53 (off Brazil).

*Julis internasalis* Poey, 1861: 421 (Havana, Cuba).

DISTRIBUTION: Florida and Antilles to Brazil.

***Halichoeres discolor* Bussing**

*Halichoeres discolor* Bussing, 1983: 19, fig. 1 (Bahía Weston, Isla del Coco, Costa Rica).

DISTRIBUTION: Isla del Coco, Costa Rica, eastern Pacific.

***Halichoeres dispilus* (Günther)**

*PlatyGLOSSUS dispilus* Günther, 1864: 25 (Pacific coast of Panama).

DISTRIBUTION: Gulf of California to Peru, Galapagos Ids.

***Halichoeres garnoti* (Valenciennes)**

*Julis garnoti* Val., 1839: 390 (Martinique Id, West Indies).

*Julis cinctus* Poey, 1860: 211, pl. 13, fig. 19 (Cuba).

*Julis ruptus* Poey, 1860: 212, pl. 13, fig. 20 (Cuba).

*Iridio decoratus* Bean, 1906: 29 (Nonsuch Id, Bermuda).

DISTRIBUTION: Bermuda, North Carolina to Florida, West Indies and Caribbean to southern Brazil.



***Halichoeres hartzfeldii* (Bleeker)**

*Julis (Halichoeres) hartzfeldii* Bleeker, 1852d: 563 (Ambon Id, Moluccas Ids, Indonesia).

*Labrichthys nudigena* De Vis, 1885: 881 (Great Barrier Reef, Queensland, Australia).

DISTRIBUTION: Indonesia.

REMARKS: a valid species according to Kuitert (1992).

***Halichoeres hortulanus* (Lacepède)**

*Labrus hortulanus* Lacepède, 1801: 449, 518, pl. 29, fig. 2 (Indo-Pacific Ocean).

*Labrus centiquadrus* Lacepède, 1801: 437, 493 (Madagascar, Mauritius and Réunion).

*Julis semidecorata* Lesson, 1828: 403 (Mauritius).

*Sparus decussatus* Bennett, 1829: pl. 14 (Sri Lanka).

*Halichoeres eximius* Rüppell, 1835: 16, pl. 5, fig. 1 (Red Sea).

*Julis corbis* Val., 1839: 435 (no locality given).

*Julis (Halichoeres) notophthalmus* Bleeker, 1847: 158 (Batavia [Jakarta], Indonesia).

*Tautoga notophthalmus* Bleeker, 1856b: 53 (Manado, Sulawesi [Celebes], Indonesia).

DISTRIBUTION: Indo-Pacific, including Red Sea.

REMARKS: *Halichoeres centiquadrus* appeared first in Lacepède (1801) and was used by many authors as the name for this species. Randall and Smith (1982) pointed out that Valenciennes realized that *centiquadrus* and *hortulanus* represented the same species; he placed *hortulanus* first in the species heading and table of contents. As first revisor, his choice of *hortulanus* established it as the valid name for this species. *Julis corbis* Valenciennes is a synonym (Pietsch, 1995).

***Halichoeres insularis* Allen & Robertson**

*Halichoeres insularis* Allen & Robertson, 1992: 51, figs. 5-6 (Socorro Id, Revillagigedo Ids, Mexico).

DISTRIBUTION: Isla Socorro, off Pacific coast of Mexico.

***Halichoeres iridis* Randall & Smith**

*Halichoeres iridis* Randall & Smith, 1982: 17, pl. 7, figs. C-E (Mauritius).

DISTRIBUTION: Western Indian Ocean, Red Sea to South Africa, Oman, Maldives, Chagos and Mauritius.

***Halichoeres kallochroma* Bleeker**

*Julis (Halichoeres) kallochroma* Bleeker, 1853c: 289 (Priaman, Sumatra, Indonesia).

DISTRIBUTION: Mentawai Ids (off Sumatra); also off southwestern Thailand (U. Satopoomin, pers. comm.).

***Halichoeres lapillus* Smith**

*Halichoeres lapillus* Smith, 1947: 801 (Inhaca Id, Delagoa

Bay, Mozambique).

DISTRIBUTION: western Indian Ocean.

***Halichoeres leptotaenia* Randall & Earle**

*Halichoeres leptotaenia* Randall & Earle, 1994: 288, pls. 1-3 (Musandam, Persian Gulf, Oman).

DISTRIBUTION: Persian Gulf.

***Halichoeres leucoxanthus* Randall & Smith**

*Halichoeres leucoxanthus* Randall & Smith, 1982: 20, pl. 8, figs C-D (East end of Java, Indonesia).

DISTRIBUTION: western Indian Ocean, Christmas Id, and western Indonesia.

***Halichoeres leucurus* (Walbaum)**

*Labrus leucurus* Walbaum, 1792: 249 (no locality).

*Labrus purpureus* Bloch & Schneider, 1801: 262 (no locality).

*Anampses moniliger* Cuvier, in Cuvier et al., 1827: pl. 31, fig. 6 (no locality).

*Julis (Halichoeres) kallopos* Bleeker, 1853h: 348 (Ambon Id, Moluccas Ids, Indonesia).

*Julis (Halichoeres) temminckii* Bleeker, 1853d: 491 (Batavia [Jakarta], Indonesia).

DISTRIBUTION: East Indies, Palau, and Solomon Ids.

REMARKS: Although *Halichoeres purpureus* has often been recognized as valid, we follow de Beaufort (1940) in regarding it as a synonym of *H. leucurus*. *Labrus leucurus* and *Anampses moniliger* are based on the figure and description of Seba (1761: 95 pl. 31).

***Halichoeres maculipinna* (Müller & Troschel)**

*Julis maculipinna* Müller & Troschel in Schomburgk, 1848: 18 (Barbados, West Indies).

*Iridio meyeri* Bean, 1906: 29 (Bermuda).

*Iridio microstomus* Bean, 1906: 30 (Bermuda).

*Halichoeres penrosei* Starks, 1913: 59, pl. 7 (Natal, Brazil).

*Iridio frenatus* Nichols, 1920: 61 (Bermuda).

*Iridio similis* Nichols, 1920: 61 (Bermuda).

DISTRIBUTION: Bermuda, North Carolina to Florida, West Indies, Caribbean to Brazil.

***Halichoeres malpelo* Allen & Robertson**

*Halichoeres malpelo* Allen & Robertson, 1992: 47, figs. 1-2 (Malpelo Id, eastern Pacific).

DISTRIBUTION: Isla Malpelo, Colombia, eastern Pacific.

***Halichoeres margaritaceus* (Valenciennes)**

*Julis margaritaceus* Val., 1839: 484 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).

*Julis poecila* Lay & Bennett, 1839: 66, pl. 19, fig. 1



(Ryukyu Ids, Japan).

- Julis (Halichoeres) harloffii* Bleeker, 1847: 159 (Java).  
*PlatyGLOSSUS opercularis* Günther, 1862: 148 (Fiji Ids and Ambon Id, Indonesia).  
*PlatyGLOSSUS equinus* De Vis, 1885: 885 (Cardwell, Great Barrier Reef, Queensland, Australia).  
*Halichoeres daedalma* Jordan & Seale, 1906: 301, pl. 47, fig. 2 (Apia, Upolu Id, Western Samoa).  
*Halichoeres nanae* Tanaka, 1908: 36, pl. 2, fig. 3 (Naha, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Cocos-Keeling Islands to central Pacific.  
REMARKS: synonymy from Kuitert and Randall (1981).

#### ***Halichoeres marginatus* Rüppell**

- Halichoeres marginatus* Rüppell, 1835: 16 (Mohila and Massawa, Eritrea, Red Sea).  
*Julis lamarii* Val., 1839: 481 (Mauritius).  
*Julis annularis* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 482 (Java, Indonesia).  
*Julis notopsis* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 485 (Guam, Mariana Ids).  
*Julis (Halichoeres) phaiopus* Bleeker, 1853c: 291 (Cauer, Sumatra, Indonesia).  
*PlatyGLOSSUS metager* Day (ex Tickell), 1888: 802 (Saddle Id, off Kyoukphyoo, Arracan, Myanmar [Burma]).  
*Halichoeres ianthinus* Fourmanoir, 1955: 217 (Comores).  
*Halichoeres virescens* Fourmanoir & Guézé, 1961: 13 (Réunion Id).

DISTRIBUTION: Indo-Pacific, Red Sea to Hawaiian Ids.

#### ***Halichoeres melanochir* Fowler & Bean**

- Halichoeres melanochir* Fowler & Bean, 1928: 264, pl. 25 (Lampinigan Id, Philippines).

DISTRIBUTION: western Australia to southern Japan.

#### ***Halichoeres melanotis* (Gilbert)**

- Pseudojulis melanotis* Gilbert, 1890: 66 (Gulf of California, Mexico).

DISTRIBUTION: Gulf of California to Panama.

#### ***Halichoeres melanurus* (Bleeker)**

- Julis (Halichoeres) hoevenii* Bleeker, 1851b: 250 (Banda Neira, Banda Ids, Indonesia).  
*Julis (Halichoeres) melanurus* Bleeker, 1851b: 251 (Banda Neira, Banda Ids, Indonesia).  
*Julis (Halichoeres) chrysotaenia* Bleeker, 1853d: 488 (Batavia [Jakarta], Indonesia).  
*PlatyGLOSSUS floscorallis* Jordan & Seale, 1906: 299, pl. 46, fig. 2 (Pago Pago, American Samoa).

DISTRIBUTION: western Pacific to Micronesia and Samoa.  
REMARKS: *Halichoeres hoevenii* and *H. melanurus* are the female and male forms of this species. As first revisors, (Randall, Allen & Steene, 1997: 319) chose *Halichoeres melanurus* as the valid name.

#### ***Halichoeres melas* Randall & Earle**

- Halichoeres melas* Randall & Earle, 1994: 296, pl. 8 (Kuria Muria Ids, southern Oman, Arabian Sea).

DISTRIBUTION: southern Oman.

#### ***Halichoeres melasmapomus* Randall**

- Halichoeres melasmapomus* Randall, 1981c: 421, figs. 3-4 (Pitcairn Id).

DISTRIBUTION: western to central Pacific.

#### ***Halichoeres miniatus* (Valenciennes)**

- Julis miniatus* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 460 (Java, Indonesia).  
*Pseudojulis murrayensis* De Vis, 1885: 882 (Murray Id, Queensland, Australia).  
*Halichoeres annulatus* Fowler, 1904: 535, pl. 20 (Padang, Sumatra, Indonesia).

DISTRIBUTION: western Pacific.

REMARKS: synonymy from Kuitert and Randall (1981).

#### ***Halichoeres nebulosus* (Valenciennes)**

- Julis nebulosus* Val., 1839: 461 (Bombay, India).  
*Julis (Halichoeres) pseudominiatus* Bleeker, 1856a: 62 (Ambon Id, Moluccas Ids, Indonesia).  
*Julis (Halichoeres) reichei* Bleeker, 1858b: 43 (Sumatra and Ambon Id, Indonesia).  
*Pseudojulis maculifer* Castelnau, 1875: 35 (Queensland, Australia).

DISTRIBUTION: western Indian Ocean to western Pacific.

REMARKS: synonymy from Kuitert and Randall (1981).

#### ***Halichoeres nicholsi* (Jordan & Gilbert)**

- PlatyGLOSSUS nicholsi* Jordan & Gilbert, 1882a: 231 (Socorro Id, Revillagigedo Ids, off western Mexico).  
*Halichoeres sellifer* Gilbert, 1890: 67 (Clarion Id, Revillagigedo Ids).  
*Halichoeres macgregori* Gilbert & Starks, 1904: 145, pl. 23, fig. 45 (Panama).  
*Julidio maculosus* Clark, 1936: 390 (Conway Bay, Indefatigable Id [Santa Cruz], Galápagos Ids).  
*Halichoeres stigmasepia* Fowler, 1944a: 336, fig. 228 (Santa María Id [Charles Id], Galápagos Ids).  
*Halichoeres stictus* Fowler, 1944a: 336, figs. 230-231 (James Id [San Salvador Id], Galápagos Ids).

DISTRIBUTION: Gulf of California to Panama, Revillagigedo Ids and Galápagos Ids.

REMARKS: synonymy from Bussing (1987).

#### ***Halichoeres nigrescens* (Bloch & Schneider)**

- Labrus nigrescens* Bloch & Schneider, 1801: 263 (no locality).



*Labrus baccatus* de Procé 1822: 132 (Manila, Philippines).  
*Labrus mola* Cuvier 1829: 258 (no locality given).  
*Julis dussumieri* Val., 1839: 478, pl. 387 (Malabar, India).  
*Julis exornatus* Richardson, 1846b: 258 (Hong Kong).  
*Julis (Halichoeres) javanicus* Bleeker, 1857b: 341 (Java).  
*Halichoeres kneri* Bleeker, 1862b: (Java; Singapore; Bangka; Sulawesi, Indonesia).  
*PlatyGLOSSUS (Leptojulis) dubius* Steindachner, 1866c: 37 (Tanzania [Zanzibar]).  
*PlatyGLOSSUS dayi* Steindachner, 1870b: 567 (Singapore).  
*PlatyGLOSSUS ransonneti* Steindachner, 1870: 567 (Singapore).  
*PlatyGLOSSUS immaculatus* Macleay, 1878a: 362, pl. 10, fig. 1f (Darwin, Australia).  
*PlatyGLOSSUS amabilis* De Vis, 1885: 885 (Murray Id, Queensland, Australia).  
*PlatyGLOSSUS roseus* Day, 1888: 264 (Karachi, Pakistan).  
*PlatyGLOSSUS maculatus* Jatzow & Lenz, 1898: 520, pl. 36, fig. 16 (Zanzibar).  
*Halichoeres leucostigma* Fowler & Bean, 1928: 299, pl. 40 (Pujada Bay, Mindanao, Philippines).  
*Halichoeres dianthus* Smith, 1947: 802 (Inhaca Id, Delagoa Bay, Mozambique).

DISTRIBUTION: Western Indian Ocean to western Pacific.

REMARKS: Bloch and Schneider (1801) based their brief description of *Labrus nigrescens* on Seba's plate 31, fig.2. Randall and Smith (1982) pointed out that no type specimen of *L. nigrescens* is extant, and accepted *Julis dussumieri* Valenciennes, 1839 as the valid name, adding "in contrast to most recent authors who use *Halichoeres nigrescens* Bloch & Schneider". They listed deficiencies in the Seba illustration of *nigrescens* and noted that the two black spots between the fourth, fifth and sixth dorsal-fin spines are suggestive of males of several species of the genus including *H. dussumieri*. Further studies of these species by J.E. Randall now indicate that the two black spots in the spinous portion of the dorsal fin as illustrated by Seba are diagnostic for *H. nigrescens*. Other discrepancies such as greater body depth, protruding lower jaw, and posterior origin of the dorsal fin should be regarded as artist errors. The anal-ray count of III,15 as given by Bloch & Schneider, is actually III,12 (15 represents the total count of anal spines and soft-rays), so this count is not in error as indicated by Randall and Smith. If *nigrescens* is not accepted as the valid name, then *Halichoeres mola* (Cuvier, 1829) would replace *H. dussumieri*. Cuvier based the name *mola* on the Sahnee Moia of Russel (1803: vol. 2: 15, fig. 120) which is clearly conspecific with the species we here identify as *nigrescens*. The holotypes of *PlatyGLOSSUS maculatus* (AMS I.16369-001, 84 mm SL) and *P. amabilis* (QM I.88, 57 mm SL, from Murray Id) have been examined by the second author. Rudie H. Kuitert (pers. comm.) determined that *Halichoeres kneri* is a subadult of *H. dussumieri*. The holotype of *P. roseus* Day was examined by A. Gill. From meristics, body form, the presence of a median row of predorsal scales and fin form he concluded that it is *H. dussumieri*. The specimen lacks the distinctive pectoral-base spot of the species, but is faded, and may have lost this character after long preservation.

### ***Halichoeres notospilus* (Günther)**

*Pseudojulis notospilus* Günther, 1864: 26 (Pacific coast of Panama).

DISTRIBUTION: Gulf of California to Peru.

### ***Halichoeres ornatissimus* (Garrett)**

*Julis ornatissimus* Garrett, 1863: 63 (Hawaiian Ids).  
*Halichoeres iridescens* Jenkins, 1901: 47, fig. 2 (Honolulu, Hawaiian Ids).  
*Halichoeres lao* Jenkins, 1901: 48, fig. 3 (Honolulu).

DISTRIBUTION: central and western Pacific.

### ***Halichoeres pallidus* Kuitert & Randall**

*Halichoeres pallidus* Kuitert & Randall, 1995: 116, figs. 13-16 (Gunung Api Id, Indonesia).

DISTRIBUTION: Indonesia and Line Ids, central Pacific.

### ***Halichoeres papilionaceus* (Valenciennes)**

*Julis papilionaceus* Val., 1839: 484 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).  
*Julis (Halichoeres) schwarzi* Bleeker, 1847: 159 (Sumanap, eastern Madura, Indonesia).  
*Julis (Halichoeres) dieschismenacanthus* Bleeker, 1852e: 645 (Banda Neira, Banda Ids, Indonesia).  
*Julis (Halichoeres) dieschismenacanthoides* Bleeker, 1853a: 121 (Ambon Id, Moluccas Ids, Indonesia).  
*PlatyGLOSSUS (Halichoeres) doleschalli* Steindachner, 1863b: 1190, pl. 2, fig. 2 (Ambon Id, Indonesia).

DISTRIBUTION: East Indies.

### ***Halichoeres pardaleocephalus* Bleeker**

*Julis (Halichoeres) pardaleocephalus* Bleeker, 1849b: 8 (Boleling, northern Bali, Indonesia).

DISTRIBUTION: Bali and Sumatra to India.

### ***Halichoeres pelicier* Randall & Smith**

*Halichoeres pelicier* Randall & Smith, 1982: 12, pl. 5, figs. C-D, pl. 6, figs. A-B (Mauritius).

DISTRIBUTION: Mauritius.

### ***Halichoeres pictus* (Poey)**

*Julis pictus* Poey, 1860: 214 (Havana, Cuba).

DISTRIBUTION: Bermuda, Florida Keys, West Indies and Caribbean to Brazil.

### ***Halichoeres podostigma* Bleeker**

*Julis (Halichoeres) podostigma* Bleeker, 1854c: 332 (Larantuka, Flores Id, Indonesia).



DISTRIBUTION: East Indies.

***Halichoeres poeyi* (Steindachner)**

*Choerophilus crotaphus* Poey (*nec* Cuvier), 1860: 109 (Cuba).

*PlatyGLOSSUS poeyi* Steindachner, 1867c: 355 (Suriname).

*Iridio kirschii* Jordan & Evermann, 1898: 1598 (Bahia, Brazil).

DISTRIBUTION: South Florida and Bahamas to Brazil.

***Halichoeres prosopion* Bleeker**

*Julis (Halichoeres) prosopion* Bleeker, 1853h: 347 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: western Pacific to Palau and Samoa.

***Halichoeres radiatus* (Linnaeus)**

*Labrus radiatus* Linnaeus, 1758: 288 (America).

*Labrus brasiliensis* Bloch, 1791: 125, pl. 280 (Brazil).

*Julis crotaphus* Cuvier, 1829: 258 (no locality given).

*Julis cyanostigma* Val., 1839: 391 (Martinique).

*Julis opalina* Val., 1839: 392 (Martinique, West Indies).

*Julis patatus* Val., 1839: 398 (Martinique, West Indies).

*Julis principis* Val., 1839: 402 (Bahia, Brazil).

*Iridio elegans* Bean, 1906: 30, fig. 6 (Bermuda).

*Halichoeres irideus* Starks, 1913: 60, pl. 8 (Natal, Brazil).

*Halichoeres irideus torquatus* Parr, 1930: 84, fig. 20 (Rum Cay, Bahamas).

DISTRIBUTION: Bermuda and North Carolina to Brazil.

REMARKS: According to Luiz Alvez Rocha (pers. comm.) specimens from Brazil may represent a different species from *H. radiatus* in the Caribbean.

***Halichoeres richmondi* Fowler & Bean**

*Halichoeres richmondi* Fowler & Bean, 1928: 263, pl. 24 (Inamucan Bay, Mindanao, Philippines).

DISTRIBUTION: East Indies to Micronesia.

***Halichoeres rubricephalus* Kuitert & Randall**

*Halichoeres rubricephalus* Kuitert & Randall, 1995: 113, figs. 9-12 (Flores Id, Indonesia).

*Halichoeres* sp. 1 Kuitert, 1992: 177.

DISTRIBUTION: Flores, Indonesia.

***Halichoeres scapularis* (Bennett)**

*Julis scapularis* Bennett, 1832a: 167 (Mauritius).

*Halichoeres caeruleovittatus* Rüppell, 1835: 14, pl. 4, fig. 1 (Jidda [Jeddah] Saudi Arabia, Red Sea; [also spelt *Halichöres coeruleo-vittatus* in text]).

*Julis leschenaulti* Val., 1839: 453 (Mauritius, Réunion).

*Julis elegans* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 467 (Java, Indonesia).

*Julis (Halichoeres) phaiotaenia* Bleeker, 1855a: 322 (Batu

Ids, Indonesia).

*PlatyGLOSSUS alternans* Cartier, 1874: 104 (Philippines).

*PlatyGLOSSUS (Guentheria) pagenstecheri* Kossmann & Räuber, 1877: 407, pl. 3, fig. 5 (Red Sea).

*Pseudophilus ziczac* De Vis, 1885: 282 (Queensland).

*Halichoeres cymatogrammus* Jordan & Seale, 1905: 786, fig. 8 (southern Negros, Philippines).

DISTRIBUTION: Indo-West Pacific, Red Sea to South Africa, Japan, Australia and western Pacific.

***Halichoeres semicinctus* (Ayres)**

*Julis semicinctus* Ayres, 1859: 32 (Cedros Id, Baja California, Mexico).

*Pseudophilus venustus* Jenkins & Evermann, 1889: 145 (Guaymas, Sonora, Mexico).

DISTRIBUTION: Baja California and Gulf of California.

REMARKS: synonymy from W. Bussing (pers. comm.).

***Halichoeres signifer* Randall & Earle**

*Halichoeres signifer* Randall & Earle, 1994: 292, pls. 5-7 (Masirah Id, central coast of Oman, Arabian Sea).

DISTRIBUTION: central to southern Oman.

***Halichoeres solorensis* Bleeker**

*Julis (Halichoeres) solorensis* Bleeker, 1853f: 86 (Lawajong, Solor Id, Indonesia).

*Julis (Halichoeres) amboinensis* Bleeker, 1856a: 55 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: East Indies.

***Halichoeres stigmaticus* Randall & Smith**

*Halichoeres stigmaticus* Randall & Smith, 1982: 7, pl. 3, fig. A-B (east of Muharrak Id, Bahrain, Persian Gulf).

DISTRIBUTION: Persian Gulf.

***Halichoeres tenuispinis* (Günther)**

*PlatyGLOSSUS tenuispinis* Günther, 1862: 161 (China).

*Artisia festiva* de Beaufort, 1939: 17, fig. 2 (Amoy, China).

DISTRIBUTION: coast of China.

REMARKS: Synonymy from Randall (1999d).

***Halichoeres timorensis* (Bleeker)**

*Julis (Halichoeres) timorensis* Bleeker, 1852b: 171 (Timor Id, East Indies).

*Julis (Halichoeres) kawarin* Bleeker, 1852b: 172 (Timor).

DISTRIBUTION: East Indies.

***Halichoeres trimaculatus* (Quoy & Gaimard)**

*Julis trimaculata* Quoy & Gaimard, 1834: 705, pl. 20, fig.



2 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).  
*Julis auritus* Val., 1839: 486 (Ulea, Caroline Ids).  
*Julis (Halichoeres) spilurus* Bleeker, 1851b: 252 (Banda Neira, Banda Ids, Indonesia).  
*PlatyGLOSSUS vicinus* Günther, 1909: 267, pl. 142, fig. C (Gilbert Ids).  
*Guntheria vestalis* Whitley, 1958: 37 (Lady Musgrove Id, Queensland, Australia).

DISTRIBUTION: central and western Pacific.

REMARKS: Russell (1983b: 99) referred *Guntheria vestalis* Whitley to the synonymy of *Halichoeres trimaculatus*. *Julis auritus* was described by Valenciennes from a painting. A colour photograph of the painting was sent by Martine Desoutter of the Muséum National d'Histoire Naturelle in Paris to the second author who was then able to identify the species as *H. trimaculatus*.

#### ***Halichoeres trispilus* Randall & Smith**

*Halichoeres trispilus* Randall & Smith, 1982: 18, pl. 8, figs. A-B (Villingili Id, North Malé Atoll, Maldives).

DISTRIBUTION: Maldives, South Africa and Mauritius.

#### ***Halichoeres vrolikii* (Bleeker)**

*Julis (Halichoeres) vrolikii* Bleeker, 1855a: 323 (Batu Ids, Indonesia).

*PlatyGLOSSUS ubayensis* Cartier, 1874: 104 (Philippines).

*Halichoeres desmogenys* Fowler & Bean, 1928: 276, pls. 28-29 (Dupon Port, Leyte Id, Philippines).

DISTRIBUTION: Indonesia and Philippines to Maldives.

#### ***Halichoeres zeylonicus* (Bennett)**

*Julis zeylonicus* Bennett, 1832b: 183 (Sri Lanka).

*Halichoeres bimaculatus* Rüppell, 1835: 17, pl. 5, fig. 2 (Massawa, Eritrea, Red Sea).

DISTRIBUTION: Red Sea and western Indian Ocean to Indonesia.

#### ***Halichoeres* sp 1**

*Halichoeres ornatissimus* (*nec* Garrett): Masuda et al., 1984: 208.

REMARKS: Known from southern Japan and Taiwan; to be described by J. E. Randall.

#### **? *Halichoeres* sp 2**

REMARKS: Known from Belize; tentatively placed in the genus *Halichoeres*, this species is under study by J. E. Randall, P. S. Lobel and L. Kaufman.

#### ***Halichoeres* sp 3**

REMARKS: Known from Cocos Id, eastern Pacific; to be described by G.R. Allen and D.R. Robertson.

#### ***Halichoeres* sp 4**

DISTRIBUTION: Galapagos Ids.

REMARKS: A new species to be described by C.C. Baldwin and J.E. McCosker (in press).

#### **Genus *Hemigymnus* Günther**

*Hemigymnus* Günther, 1861: 386 (type-species, *Mullus fasciatus* Thunberg, by subsequent designation).

*Cheilolabrus* Alleyne & Macleay, 1877: 345 (type-species, *C. magnilabris* Alleyne & Macleay, by monotypy).

Two species (Randall, 1986a); Indo-Pacific.

#### ***Hemigymnus fasciatus* (Bloch)**

*Labrus fasciatus* Bloch, 1792: 6, pl. 290 (Japan).

*Labrus fuliginosus* Lacepède, 1801: 437, 493, pl. 22, fig. 3 (Madagascar, Mauritius, Réunion).

*Labrus malapteronotus* Lacepède, 1801: 450, 518, pl. 31, fig. 1 (Great Equatorial Ocean [Mauritius]).

*Sparus meaco* Lacepède, 1802: 54, 160 (Japan).

*Sparus zonephorus* Lacepède, 1802: 51, 155 (unnecessary replaceent for *Labrus fasciatus* Bloch).

*Scarus quinquefasciatus* Bennett [J.W.], 1830: pl. 23 (Sri Lanka).

*Halichoeres sexfasciatus* Rüppell, 1835: 18, pl. 5, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Tautoga mertensii* Val., 1839: 308 (Caroline Ids).

*Tautoga leucomus* Bleeker, 1858c: 239 (Indonesia).

*Thalassoma bilateralis* von Bonde, 1934: 454, pl. 23, fig. 7 (Zanzibar fish market, Tanzania).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

#### ***Hemigymnus melapterus* (Bloch)**

*Labrus melapterus* Bloch, 1791: 137, pl. 285 (Japan).

*Labrus malapterus* Bloch 1792: 29, pl. 296, fig. 2 (Japan).

?*Labrus melanopterus* Forster 1795: 15 (Indian Ocean).

*Labrus melampterus* Bloch & Schneider, 1801: 247 (Java).

*Sparus niger* Lacepède, 1802: 50, 152 (Japan).

*Julis boryii* Lesson, 1831: 141, pl. 36 (Tahiti, Society Ids).

*Tautoga dimidiatus* Bleeker, 1849a: 18 (no locality).

*Julis beraber* Montrouzier, 1857: 474 (Woodlark Id).

*Labrichthys bicolor* Day, 1871: 696 (Andaman Ids).

*Cheilolabrus magnilabris* Alleyne & Macleay, 1877: 345, pl. 16, fig. 2 (Darnley Id, Queensland, Australia).

DISTRIBUTION: Western Indian Ocean to Samoa and Micronesia.

REMARKS: The name *melanopterus* was listed in the register of Bloch's *Naturgeschichte der ausländischen Fische*, last volume of 1795 with reference to part 5 of that work page 137. The species described there was named in 1791 as *Labrus melapterus* (H.-J. Paepke, pers. comm.).

#### **Genus *Hologymnosus* Lacepède**

*Hologymnosus* Lacepède, 1801: 556 (type-species,



*Hologymnosus fasciatus* Lacepède, by monotypy).

Genus revised by Randall (1982); 4 species; Indo-Pacific.

***Hologymnosus annulatus* (Lacepède)**

*Labrus annulatus* Lacepède, 1801: 455, 526, pl. 28, fig. 3 (Indo-Pacific Ocean).

*Labrus semidiscus* Lacepède, 1801: 429, 473, pl. 6, fig. 2 (Great Gulf of India).

*Coris elongata* Günther, 1862: 201 (Aneityum Id, Vanuatu).

*Coris semipartita* Günther, 1862: 203 (Mauritius).

DISTRIBUTION: Indo-Pacific, Red Sea to Pitcairn Group.

***Hologymnosus doliatus* (Lacepède)**

*Labrus doliatus* Lacepède, 1801: 429, 473, pl. 6, fig. 3 (Mauritius).

*Hologymnosus fasciatus* Lacepède, 1801: 556, 557, pl. 1, fig. 3 (Indo-Pacific Ocean).

*Julis rosea* Quoy & Gaimard, 1834: 709 (Mauritius).

*Julis annulatus* Val., 1839: 501, pl. 388 (Mauritius; Seychelles).

*Julis laportei* Liénard, 1845: 113 (Mauritius).

*Julis (Julis) oxyrhynchus* Bleeker, 1857a: 74 (Kajeli, Buru Ids, Moluccas Ids, Indonesia).

DISTRIBUTION: East Africa to Samoa and Line Ids.

REMARKS: *Julis laportei* Liénard is a new synonym.

***Hologymnosus longipes* (Günther)**

*Coris longipes* Günther, 1862: 204 (Vanuatu).

DISTRIBUTION: Vanuatu, New Caledonia, Loyalty Ids and Great Barrier Reef.

***Hologymnosus rhodonotus* Randall & Yamakawa**

*Hologymnosus* sp. Randall, 1982: 19.

*Hologymnosus rhodonotus* Randall & Yamakawa, 1988: 26, figs. 1-2 (Okinawa, Ryukyu Ids, Japan).

DISTRIBUTION: Okinawa and Philippines.

**Genus *Labrichthys* Bleeker**

*Labrichthys* Bleeker, 1854c: 331 (type-species, *Labrichthys cyanotaenia* Bleeker, by monotypy).

*Thysanoecheilus* Kner, 1864: 185 (type-species, *Thysanoecheilus ornatus* Kner, by monotypy).

One species (Randall & Springer, 1973).

***Labrichthys unilineatus* (Guichenot)**

*Cossyphus unilineatus* Guichenot, 1847: 284 (Guam).

*Labrichthys cyanotaenia* Bleeker, 1854c: 331 (Larantuka, Flores Id, Lesser Sunda Ids, Indonesia).

*Thysanoecheilus ornatus* Kner, 1865a: 5, pl. 3, fig. 1 (Upolu, Samoa).

*PlatyGLOSSUS ocellatus* Kner & Steindachner, 1867: 377 [22], pl. 2, fig. 8 (Upolu, Samoa).

*Chærojulis castaneus* Kner & Steindachner, 1867: 394 (Upolu, Samoa).

DISTRIBUTION: Western Indian Ocean to Samoa.

**Genus *Labroides* Bleeker**

*Labroides* Bleeker, 1851: 227, 249 (type-species, *Labroides paradiseus* Bleeker, by monotypy).

*Fissilabrus* Kner, 1860: 52 [14] (type-species, *Cossyphus dimidiatus* Valenciennes, by subsequent monotypy).

*Fowlerella* Smith, 1957a: 100, 104 (type-species, *Labroides bicolor* Fowler & Bean, by original designation).

Five species (Randall, 1958b); Red Sea and Indo-Pacific.

***Labroides bicolor* Fowler & Bean**

*Labroides bicolor* Fowler & Bean, 1928: 224, pl. 18 (Port Maricaban, Philippines).

DISTRIBUTION: Indo-Pacific.

***Labroides dimidiatus* (Valenciennes)**

*Labrus latovittatus* Rüppell, 1835: 7 (El Tur, Sinai coast, Egypt; preoccupied by *Labrus latovittatus* Lacepède, 1801 [= *Malacanthus latovittatus*]).

*Cossyphus dimidiatus* Val., 1839: 136 (replacement name for *Labrus latovittatus* Rüppell).

*Labroides paradiseus* Bleeker, 1851b: 249 (Indonesia).

*Labroides bicincta* Saville-Kent, 1893: 308, color pl. 16, fig. 4 (Queensland, Australia).

*Labroides caeruleolineatus* Fowler, 1945: 65, fig. 7 (Saipan Id, West Pacific).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

***Labroides pectoralis* Randall & Springer**

*Labroides pectoralis* Randall & Springer, 1975: 6, pl. 1 (Auluptagel Id, Palau Ids, Philippine Sea).

DISTRIBUTION: Micronesia and western Pacific to Christmas Id (Indian Ocean).

***Labroides phthirophagus* Randall**

*Labroides phthirophagus* Randall, 1958b: 337, pl. 1, fig. A (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

***Labroides rubrolabiatus* Randall**

*Labroides rubrolabiatus* Randall, 1958b: 342, pl. 1, fig. B (Moorea, Society Ids).

DISTRIBUTION: Pitcairn Group, French Polynesia, Society



Ids, and Line Ids to Samoa.

### Genus *Labropsis* Schmidt

*Labropsis* Schmidt, 1931: 75 (type-species, *Labropsis manabei* Schmidt, by original designation).

Genus revised by Randall (1981a); 6 species; Indo-Pacific.

#### *Labropsis alleni* Randall

*Labropsis alleni* Randall, 1981a: 131, pl. 1, fig. A (Palau).

DISTRIBUTION: western Pacific to Marshall Ids.

#### *Labropsis australis* Randall

*Labropsis australis* Randall, 1981a: 149, pl. 5, Figs. A-C (One Tree Id, Capricorn Group, Great Barrier Reef).

DISTRIBUTION: Great Barrier Reef to Samoa.

#### *Labropsis manabei* Schmidt

*Labropsis manabei* Schmidt, 1931: 76, figs. 3-4 (Itoman, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Indonesia to Ryukyu Ids.

#### *Labropsis micronesica* Randall

*Labropsis micronesica* Randall, 1981a: 145, pl. 4, figs. A-C (Eniwetak Atoll, Marshall Ids).

DISTRIBUTION: Islands of Micronesia.

#### *Labropsis polynesica* Randall

*Labropsis polynesica* Randall, 1981a: 134, pl. 1, figs. B-C; fig. 3 (Moorea, Society Ids).

DISTRIBUTION: French Polynesia to Cook Ids.

#### *Labropsis xanthonota* Randall

*Labropsis* sp. Shepard & Meyer, 1978b: 37.

*Labropsis* sp. Allen & Steene, 1979: 50.

*Labropsis xanthonota* Randall, 1981a: 138, pl. 2, figs A-C (Fagatele Bay, Tutuila, American Samoa).

DISTRIBUTION: Indian Ocean to western Pacific, eastward to Micronesia and Samoa.

### Genus *Labrus* Linnaeus

*Labrus* Linnaeus, 1758: 282 (type-species, *Labrus bimaculatus* Linnaeus, by subsequent designation).

*Cicla* Röse, 1793: 112 (type-species, ?*Labrus viridis*, by subsequent designation).

REMARKS: Fernholm & Wheeler (1983:253) indicate that the holotype of *Labrus bimaculatus* is a *Cichlasoma*; Case 2905 is pending before the International

Commission to select neotypes so that *Labrus bimaculatus* would be a labrid. Bailey (1997) and Kullander (1997) proposed to designate *Labrus mixtus* Linnaeus, 1758 as type-species. Quignard (1966) discussed the status of the four species. Eastern Atlantic and Mediterranean.

#### *Labrus bergylta* (Ascanius)

*Labrus bergylta* Ascanius, 1767: 3, pl. 1 (no locality).

*Labrus comber* Bonnaterre, 1788: 115, pl. 99, fig. 405 (Seas of Great Britain).

*Labrus comber* Gmelin, 1789: 1297 ("Cornubiae littore"; preoccupied by *Labrus comber* Bonnaterre, 1788).

*Labrus ballan* Bonnaterre, 1788: 115, pl. 98 (Seas of Great Britain).

*Labrus ballan* Walbaum 1792: 259 (Seas of Great Britain; preoccupied by Bonnaterre, 1788).

*Labrus comber* Walbaum, 1792: 259 (no locality; preoccupied by *Labrus comber* Bonnaterre, 1788 and *Labrus comber* Gmelin, 1789).

*Labrus maculatus* Bloch, 1792: 17, pl. 294 (North Sea).

*Labrus aper* Retzius, 1800: 335 ("Mari Occidentalis").

*Labrus neustriacae* Lacepède, 1801: 451, 522 (près des rives de l'ancienne Neustrie).

*Labrus ballanus* Shaw, 1803: 498, pl. 71 (Filey Bridge near Scarborough, England).

*Labrus balanus* Fleming, 1828: 209 (England).

*Crenilabrus multidentatus* Thompson, 1837: 56 (Ireland).

*Labrus variabilis* Thompson, 1837: 59 (Ireland).

*Labrus donovani* Val., 1839: 39 (Brittany).

*Labrus reticulatus* Lowe, 1839: 85 (Madeira; preoccupied by *Labrus reticulatus* Bonnaterre, 1788 [= *Symphodus ocellatus* (Forsskål, 1775)] and *Labrus reticulatus* Walbaum, 1792 *nomen dubium*).

*Labrus nubilus* Valenciennes, 1843: 62 (Canary Ids).

DISTRIBUTION: eastern Atlantic from Norway to Morocco, Azores, Madeira and Mediterranean.

REMARKS: *Labrus comber* Gmelin is here regarded as independently described from *L. comber* Bonnaterre.

#### *Labrus merula* Linnaeus

?*Labrus livens* Linnaeus, 1758: 287 (no locality).

*Labrus merula* Linnaeus, 1758: 288 (Europe).

?*Sparus lividus* Lacepède, 1802: 50, 152 (Mediterranean).

*Labrus nereus* Risso, 1810: 231 (Nice, France).

*Labrus psittacus* Risso, 1827: 304 (Nice; preoccupied by *Labrus psittacus* Lacepède, 1801 [= *Labrus viridis* Linnaeus 1758]).

?*Labrus crassus* Agassiz in Spix & Agassiz, 1831: 95, pl. 52 (off Brazil).

*Labrus limbatus* Val., 1839: 89 (Toulon, Nice, Naples).

*Labrus lineolatus* Val., 1839: 90 (Toulon, Nice, Naples).

*Labrus saxorum* Val., 1839: 91 (Mediterranean Sea).

DISTRIBUTION: Portugal to Morocco, Azores, and Mediterranean.

REMARKS: Jordan (1890: 609) used *Labrus livens* for this species. However, as pointed out by Valenciennes (1839: 86) nothing in the concise description of *Labrus livens* proves it represents this species. Agassiz



described *Labrus crassus* with D XVII,14; Günther (1862) and Jordan (1890) questioned the type locality. As no species of *Labrus* are known to occur in American waters, *L. crassus* probably came from Europe, and the species is a synonym of *L. merula*.

#### *Labrus mixtus* Linnaeus

*Labrus ossifagus* Linnaeus, 1758: 286 (Europe).

*Labrus mixtus* Linnaeus, 1758: 287 (Liburni [eastern Adriatic Sea]).

*Labrus varius* Linnaeus 1758: 288 (Mediterranean Sea).

*Labrus coeruleus* Ascanius, 1772: 5, pl. 12 (Norway).

*Labrus carneus* Ascanius, 1772: 6, pl. 13 (Norway).

*Labrus trimaculatus* Bonnaterre, 1788: 113, pl. 98, fig. 401 (Seas of Great Britain).

*Labrus lineatus* Bonnaterre, 1788: 113, pl. 98, fig. 402 (Seas of Great Britain).

*Labrus trimaculatus* Gmelin 1789: 1294 (Britain; preoccupied by *Labrus trimaculatus* Bonnaterre, 1788).

*Labrus variegatus* Gmelin, 1789: 1294 (Skerry).

*Labrus coquus* Gmelin, 1789: 1297 ("in Cornubiae littore").

?*Labrus microlepidotus* Bloch, 1792: 12, pl. 292 (no locality).

*Labrus badius* Walbaum 1792: 258 (no locality).

*Labrus coquus* Walbaum, 1792: 260 (no locality; preoccupied by *Labrus coquus* Gmelin, 1789).

*Labrus herbeus* Walbaum 1792: 25 (no locality).

*Labrus vittatus* Walbaum, 1792: 256 (no locality).

*Labrus vetula* Bloch, 1792: 14, pl. 293 (North Sea).

*Labrus cook* Bloch & Schneider 1801: 268 (no locality).

*Sparus claviera* Lacepède, 1802: 50, 152 (Marseille et d'Antibes; unnecessary replacement for *Labrus varius* Linnaeus).

*Sparus formosus* Shaw & Nodder, 1790: pl. 31 (North Atlantic).

*Labrus luvarus* Rafinesque, 1810a: 38 (Sicily).

*Labrus quadrimaculatus* Risso, 1827: 302 (Nice, France).

*Acantholabrus yarellii* Val., 1839: 250 (London market).

*Labrus larvatus* Lowe, 1852: 249 (Madeira).

DISTRIBUTION: eastern Atlantic from Norway to Senegal and Mediterranean.

REMARKS: *Labrus bimaculatus* Linnaeus, 1758 has been used for either the present species or the common South American cichlid *Cichlasoma bimaculatum*. Conservation of usage and neotype designation were proposed by Ronald Fricke and Carl J. Ferraris (Case 2905) so that the name *bimaculatus* should be maintained for the labrid species. However, *L. mixtus* continues to be used for the labrid species and *L. bimaculatus* is very much in use for the South American cichlid. Kullander (1997) designated a neotype for *L. mixtus* (UUSM 193) and proposed: i) to set aside the application in Case 2905, ii) to place on the Official List of Specific Names in Zoology the names *bimaculatus* (specific name of the type species of *Cichlasoma*) and *mixtus* (specific name of the type species of *Labrus*), and iii) to place on the Official List of Rejected and Invalid Specific Names in Zoology the name *ossifagus*. This application was also supported by Kottelat and Wheeler (1998). We agree that stability is best attained

by accepting Kullander's proposal. *Labrus vittatus* Walbaum and *Labrus formosus* Shaw are synonyms according to Günther (1862). However, *formosus* was originally described as *Sparus formosus* Shaw and Nodder, 1790. We follow Günther (1862: 91 footnote) in regarding *Acantholabrus yarellii* as an abnormal specimen of *L. mixtus*. *Labrus microlepidotus*, with dorsal-fin rays XVII, 13 and more than 50 lateral-line scales, is likely a synonym of *L. mixtus*.

#### *Labrus viridis* Linnaeus

*Labrus viridis* Linnaeus, 1758: 286 (Mediterranean Sea).

*Labrus luscus* Linnaeus, 1758: 287 (no locality).

*Labrus turdus* Linnaeus, 1758: 287 (European Seas).

*Labrus luteus* Walbaum 1792: 236 (no locality).

*Labrus saphyrinus* Walbaum 1792: 236 (no locality).

*Labrus psittacus* Lacepède, 1801: 440 (no locality).

*Labrus zittoides* Rafinesque, 1810a: 38 (Sicily, Italy).

*Labrus zittus* Rafinesque, 1810a: 38, pl. 12, fig. 3 (Sicily).

*Labrus prasostictes* Pallas, 1814: 272 ("ad Ponti littora").

*Labrus pincus* Nardo, 1827: 30 (Adriatic Sea).

*Labrus saxatilis* Risso, 1827: 300 (Nice, France).

*Labrus festivus* Risso, 1827: 304 (Nice, France).

*Labrus rufus* Rathke, 1837: 337 (Black Sea; preoccupied by *Labrus rufus* Linnaeus, 1758 [= *Bodianus rufus*]).

*Labrus lividus* Val., 1839: 87 (Toulon; Marseille, Naples).

*Labrus nardii* Perugia 1866: 20 (Adriatic Sea).

DISTRIBUTION: Mediterranean Sea.

REMARKS: *Labrus nardii* was regarded as a synonym by Perugia (1881). *Labrus pincus* Nardo is a synonym according to Canestrini (1872) and Bini (1968).

#### Genus *Lachnolaimus* Cuvier

*Lachnolaimus* Cuvier, 1829: 257 (type-species, *L. suillus* Cuvier, by subsequent designation).

*Lachnolaemus* Agassiz, 1846: 199 (unjustified emendation).

One species.

#### *Lachnolaimus maximus* Walbaum

*Labrus maximus* Walbaum, 1792: 261 (no locality).

*Lachnolaimus caninus* Cuvier, 1829: 257 (no locality).

*Lachnolaimus suillus* Cuvier, 1829: 257 (no locality).

*Lachnolaimus aigula* Val., 1839: 277, pl. 378 (St. Barthélemy Id, Leeward Ids, Lesser Antilles).

*Lachnolaimus dux* Val., 1839: 285 (Martinique).

*Lachnolaimus psittacus* Val., 1839: 291 (Puerto Rico).

DISTRIBUTION: Carolinas to northern South America.

REMARKS: synonymy from Jordan (1885, 1890). *Lachnolaimus suillus* and *L. caninus* were redescribed as new by Valenciennes (1839: 286-290). The combination *Lachnolaimus falcatus* used by Günther (1862: 87), based on *Labrus falcatus* Linnaeus is invalid; *Labrus falcatus* was described by Linnaeus in the carangid genus *Trachinotus*.



### Genus *Lappanella* Jordan

*Lappanella* Jordan, 1890: 622, 689 (type-species, *Ctenolabrus iris* Valenciennes, by monotypy, proposed as a subgenus).

*Marzapanus* Facciola, 1916: 148 (type-species, *Coricus fasciatus* Cocco, by monotypy).

Two species (Gomon and Forsyth, 1990). Eastern Atlantic and Mediterranean.

#### *Lappanella fasciata* (Cocco)

*Coricus fasciatus* Cocco, 1833: 16, fig. 3 (Messina, Sicily).  
*Ctenolabrus iris* Val., 1839: 236, pl. 374 (Naples, Sicily; Malta).

*Crenilabrus aurantiacus* Facciola, 1888: 22 (Messina, Sicily; preoccupied by *Crenilabrus aurantiacus* Cocco in Facciola, 1885 [= ?*Symphodus ocellatus* (Forsskal)]).

DISTRIBUTION: eastern Atlantic, Mediterranean Sea.

REMARKS: Quignard (1965) redescribed the species without mention of *Crenilabrus aurantiacus*. Facciola (1916) recognized his *C. aurantiacus* as a synonym of *Coricus fasciatus* Cocco.

#### *Lappanella guineensis* Bauchot

*Lappanella guineensis* Bauchot, 1969: 1145, fig. 1 (Gulf of Guinea, 8°28'N, 14°21'W).

DISTRIBUTION: eastern Atlantic.

### Genus *Larabicus* Randall & Springer

*Larabicus* Randall & Springer, 1973: 289 (type-species, *Labrus quadrilineatus* Rüppell, 1835 by original designation).

One species.

#### *Larabicus quadrilineatus* (Rüppell)

*Labrus quadrilineatus* Rüppell, 1835: 6, pl. 2, fig. 1 (Massawa, Eritrea, Red Sea).

*Cossyphus taeniatus* Val. (ex Ehrenberg) in Cuv. & Val., 1839: 134 (Massawa, Eritrea, Red Sea).

*Labrichthys cousteaui* Estève in Roux-Estève and Fourmanoir, 1955: 199 (Abu Latt, Red Sea).

DISTRIBUTION: Red Sea.

### Genus *Leptojulis* Bleeker

*Leptojulis* Bleeker, 1862a: 412 (type-species, *Julis (Halichoeres) cyanopleura* Bleeker, by original designation).

Five species (Randall, 1996); Indo-West Pacific.

#### *Leptojulis chrysotaenia* Randall & Ferraris

*Leptojulis chrysotaenia* Randall & Ferraris, 1981: 91, figs.

3-4 (Ka Pu Islet, Phuket, Thailand).

DISTRIBUTION: Indonesia to Sri Lanka.

#### *Leptojulis cyanopleura* (Bleeker)

*Julis finlaysoni* Val., 1839: 471 (Sri Lanka).

*Julis purpureolineatus* Val., 1839: 471 (Sri Lanka).

*Julis (Halichoeres) cyanopleura* Bleeker, 1853d: 489 (Batavia [Jakarta], Indonesia).

*Julis (Halichoeres) pyrrhogrammatoides* Bleeker, 1853d: 490 (Batavia [Jakarta], Indonesia).

DISTRIBUTION: Malaysia, New Guinea, and Australia to Persian Gulf.

REMARKS: Randall and Parenti (1999) have proposed that the names *Julis finlaysoni* and *purpureolineatus* be suppressed in order to conserve *cyanopleura*.

#### *Leptojulis lambdastigma* Randall & Ferraris

*Leptojulis lambdastigma* Randall & Ferraris, 1981: 93, fig. 5 (Samar Sea, Philippines).

DISTRIBUTION: Philippines and Taiwan.

#### *Leptojulis polylepis* Randall

*Leptojulis polylepis* Randall, 1996: 15, pls. 2C, 3G, 3H (Guadalcanal, Solomon Ids).

DISTRIBUTION: Solomon Ids, New Guinea, and Indonesia.

#### *Leptojulis urostigma* Randall

*Leptojulis urostigma* Randall, 1996: 10, fig. 3, pls 3D-F (Batangas Prov., Luzon Id, Philippines).

DISTRIBUTION: Taiwan to Indonesia.

### Genus *Macropharyngodon* Bleeker

*Macropharyngodon* Bleeker, 1862a: 412 (type-species, *Julis geoffroy* Quoy & Gaimard, by original designation).

Ten species (Randall, 1978b). Indo-Pacific.

#### *Macropharyngodon bipartitus* Smith

*Macropharyngodon bipartitus* Smith, 1957a: 104, fig. 2; pl. 2, fig. B (Pinda, Mozambique).

*Macropharyngodon varialvus* Smith, 1957a: 105, fig. 3; pl. 2, fig. A (Pinda, Mozambique).

*Macropharyngodon bipartitus marisrubri* Randall, 1978: 759, figs. 5 a-b (Taba, Gulf of Aqaba).

DISTRIBUTION: Western Indian Ocean and Red Sea. Two subspecies: *Macropharyngodon bipartitus marisrubri*, Red Sea, and *Macropharyngodon bipartitus bipartitus*, western Indian Ocean.



***Macropharyngodon choati* Randall**

*Macropharyngodon choati* Randall, 1978b: 761, fig. 5d  
(One Tree Id, Capricorn Group, Great Barrier Reef).

DISTRIBUTION: southern Great Barrier Reef, New South Wales, and New Caledonia.

***Macropharyngodon cyanoguttatus* Randall**

*Macropharyngodon cyanoguttatus* Randall, 1978b: 749, figs. 3 c-d (Mauritius).

DISTRIBUTION: Mauritius, Réunion, and South Africa.

***Macropharyngodon geoffroy* (Quoy & Gaimard)**

*Julis geoffroy* Quoy & Gaimard, 1824: 270, pl. 56, fig. 3 (Hawaiian Ids).

*Labrus margaritiferus* Cuvier, 1829: 258 (no locality).

*Macropharyngodon aquilolo* Jenkins, 1901: 46, fig. 1 (Honolulu, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

REMARKS: Cuvier (1829: 258) published the name *Labrus margaritiferus* as a footnote with reference to fig. 3 on a plate in Quoy and Gaimard (1824) with the common name "Girelle Labiche". The plate number was mistakenly omitted. This common name does not appear on any Quoy and Gaimard plates. M.-L. Bauchot checked the original manuscript 506 (XIII B 62) and found the name Girelle Labiche written in pencil on a tracing of the painting of pl. 56, fig. 3 of Quoy and Gaimard. This was the first common name given to the species by Quoy. It was later changed to Girelle Geoffroy.

***Macropharyngodon kuiteri* Randall**

*Macropharyngodon kuiteri* Randall, 1978b: 766, figs. 5 g-h (Seal Rocks, New South Wales, Australia).

DISTRIBUTION: southern Great Barrier Reef, New South Wales, and New Caledonia.

***Macropharyngodon meleagris* (Valenciennes)**

*Julis meleagris* Val., 1839: 481 (Ulea, Caroline Ids).

*Leptojulius pardalis* Kner, 1867: 728 [19], pl. 3, fig. 2 (Fiji).

*PlatyGLOSSUS nigromaculatus* Günther, 1872a: 666, pl. 65, fig. B (Savai'i [Savay] Id, Western Samoa Ids).

*Halichoeres nigropunctatus* Seale, 1901a: 89 (Guam).

DISTRIBUTION: western and central Pacific.

***Macropharyngodon moyeri* Shepard & Meyer**

*Macropharyngodon moyeri* Shepard & Meyer, 1978a: 159, fig. 1 (Miyakejima, Izu Ids, Japan).

DISTRIBUTION: southern Japan.

***Macropharyngodon negrosensis* Herre**

*Macropharyngodon negrosensis* Herre, 1932: 142 (Dumagnete, Oriental Negros, Philippines).

DISTRIBUTION: western Pacific to Micronesia and Samoa.

***Macropharyngodon ornatus* Randall**

*Macropharyngodon ornatus* Randall, 1978b: 753, figs. 3 g-h (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: Indonesia to western Indian Ocean.

***Macropharyngodon vivienae* Randall**

*Macropharyngodon vivienae* Randall, 1978b: 764, fig. 6 (outer slope of barrier reef, off Tuléar, Madagascar).

DISTRIBUTION: Madagascar and South Africa.

**Genus *Malapterus* Valenciennes**

*Malapterus* Val., 1839: 355 (type-species, *Malapterus reticulatus* Valenciennes, by monotypy).

*Malacopterus* Günther, 1862: (unjustified emendation, preoccupied by Audinet-Serville 1834 in Coleoptera).

*Neolabrus* Steindachner, 1875: 461 (type-species, *Neolabrus fenestratus* Steindachner, by monotypy).

*Hospilabrus* Whitley, 1931a: 334 (unnneeded replacement for *Malapterus* Valenciennes).

A valid genus (Pequeño, 1989 and M. Protti, pers. comm.).  
One species.

***Malapterus reticulatus* Valenciennes**

*Malapterus reticulatus* Val., 1839: 355, pl. 383 (Juan Fernández Ids).

*Neolabrus fenestratus* Steindachner, 1875: 461 [19], pl. 1, fig. 2 (Juan Fernández Ids).

DISTRIBUTION: Juan Fernández Ids, Chile.

**Genus *Minilabrus* Randall & Dor**

*Minilabrus* Randall & Dor, 1980: 155 (type-species, *M. striatus* Randall & Dor, by original designation).

One species.

***Minilabrus striatus* Randall & Dor**

*Minilabrus striatus* Randall & Dor, 1980: 155, figs. 1-3 (Um Aabak, Dahlak Archipelago, Eritrea, Red Sea).

DISTRIBUTION: Red Sea.

**Genus *Nelabrichthys* Russell**

*Nelabrichthys* Russell, 1983a: 1 (type-species, *Labrus ornatus* Carmichael, by original designation).

One species.



***Nelabrichthys ornatus* (Carmichael)**

- Labrus ornatus* Carmichael, 1819: 502, pl. 27 (Tristan da Cunha, South Atlantic).  
*Labrichthys isleanus* Sauvage, 1875: 988 (St Paul Id, southern Indian Ocean).  
*Labrichthys lantzii* Sauvage, 1875: 988 (St Paul Id).  
*Platyglossus robinsoni* Gilchrist & Thompson, 1914: 86 (Natal, South Africa [specimen evidently mislabelled]).

DISTRIBUTION: Tristan da Cunha Group, Gough, and Vema Seamount in the southern Atlantic, and St Paul and Amsterdam Ids in the southern Indian Ocean.

**Genus *Notolabrus* Russell**

*Notolabrus* Russell, 1988: 12 (type-species, *Labrus fucicola* Richardson, by original designation).

Seven species (Russell, 1988). Mostly in southern Australia and New Zealand.

***Notolabrus celidotus* (Bloch & Schneider)**

- Labrus celidotus* Bloch & Schneider (ex Forster), 1801: 265 (New Zealand).  
*Labrus poecilopleura* Val., 1839: 95 (New Zealand).  
*Julis notatus* Richardson and Solander in Richardson, 1843c: 425 (Totaerane, Queen Charlotte Sound and Tolaga, New Zealand).  
*Labrus botryocosmus* Richardson, 1846a: 53, pl. 31 (South Australia).

DISTRIBUTION: New Zealand.

***Notolabrus cinctus* (Hutton)**

*Labrichthys cincta* Hutton, 1877: 354 (Otago, New Zealand).

DISTRIBUTION: New Zealand.

***Notolabrus fucicola* (Richardson)**

- Labrus fucicola* Richardson, 1840: 26 (Tasmania).  
*Labrichthys fucicolor* Hutton, 1890: 281 (misprinting or emendation).  
*Pseudolabrus pittensis* Waite, 1910: 26 (Chatham Ids).

DISTRIBUTION: southwestern Australia and New Zealand.

***Notolabrus gymnogenis* (Günther)**

- Labrichthys gymnogenis* Günther, 1862: 117 (Australia).  
*Labrichthys nigromarginatus* MacLeay, 1878b: 35, pl. 3, fig. 3 (Port Jackson, New South Wales, Australia).

DISTRIBUTION: Queensland to Tasmania, Lord Howe Id.

***Notolabrus inscriptus* (Richardson)**

*Labrus inscriptus* Richardson, 1848: 134, pl. 56, figs. 1-2 (Norfolk Id).

DISTRIBUTION: New South Wales, New Zealand, Lord Howe Id, Norfolk Id, and Kermadecs.

***Notolabrus parilus* (Richardson)**

- Tautoga parila* Richardson, 1850: 70 (King George Sound, Western Australia).  
*Labrichthys punctulata* Günther, 1862: 118 (Swan river, Western Australia).  
*Labrichthys edelensis* Castelnau, 1873: 137 (Fremantle, Western Australia).  
*Labrichthys bostockii* Castelnau, 1873: 137 (Fremantle).  
*Labrichthys convexus* Castelnau, 1875: 38 (Fremantle).  
*Labrichthys rubra* Castelnau, 1875: 38 (Fremantle).  
*Labrichthys unicolor* Castelnau, 1875: 37 (Fremantle).

DISTRIBUTION: southern and western Australia.

***Notolabrus tetricus* (Richardson)**

- Labrus tetricus* Richardson, 1840: 25 (Tasmania).  
*Labrichthys bleekeri* Castelnau, 1872a: 148 (Melbourne).  
*Labrichthys richardsoni* Castelnau, 1872a: 150 (Melbourne).  
*Labrichthys vestita* Castelnau, 1872a: 151 (Melbourne).  
*Labrichthys tetrica* var *fuscipinnis* Klunzinger, 1872: 37 (Hobson's Bay, Victoria, Australia).  
*Labrichthys tetrica* var *tigripinnis* Klunzinger, 1872: 37 (Hobson's Bay, Victoria, Australia).  
*Labrichthys cuvieri* Castelnau, 1873: 53 (Tasmania).  
*?Labrichthys tetrica* var *ocellata* Klunzinger, 1880: 402 (Murray river, South Australia).  
*Labrichthys cyanogenys* Ramsay & Ogilby, 1887b: 242 (Broken Bay, New South Wales, Australia).  
*Labrichthys ceruleus* Saville-Kent, 1897: 174 (Tasmania).

DISTRIBUTION: southern New South Wales to Tasmania and South Australia.

**Genus *Novaculichthys* Bleeker**

- Novaculichthys* Bleeker, 1862a: 414 (type-species, *Labrus taeniourus* Lacepède, by original designation).  
*Malacocentrus* Gill, 1862: 143 (type-species, *Xyrichtys taeniurus* Valenciennes, by original designation).  
*Dimalacocentrus* Gill, 1863: 223 (type-species, *Novacula kallosoma* Bleeker, by monotypy).  
*Semachlorella* Fowler & Bean, 1928: 367 (type-species, *Julis bifer*, Lay & Bennett, by original designation).  
*Novaculops* Schultz, 1960: (122) 143 (type-species, *Novaculichthys woodi* Jenkins, by original designation).

This genus is under study by J.E. Randall and J.L. Earle; 7 species, including 3 undescribed species. Red Sea to eastern Pacific.

***Novaculichthys macrolepidotus* (Bloch)**

- Labrus macrolepidotus* Bloch, 1791: 135, pl. 284, fig. 2 (no locality).  
*Labrus arago* Quoy & Gaimard, 1824: 263, pl. 65, fig. 2 (Iles des Papous).  
*Julis taenianotus* Cuvier in Quoy & Gaimard, 1824: 271



(Waigeo, Indonesia).

*Julis trimaculata* Val., 1839: 386 (no locality; preoccupied by *Julis trimaculata* Quoy & Gaimard, 1834 [= *Halichoeres trimaculatus*]).  
*Novacula julioides* Bleeker, 1851b: 354 (Indonesia).

DISTRIBUTION: Indian Ocean to Mariana Ids.

***Novaculichthys perlas***  
(Wellington, Allen & Robertson)

*Xyrichtys perlas* Wellington, Allen & Robertson, 1994: 49, figs. 1-3 (Isla San Jose, Perlas Ids, eastern Pacific).

DISTRIBUTION: Perlas Ids (Gulf of Panama).

***Novaculichthys taeniourus*** (Lacepède)

*Labrus taeniourus* Lacepède, 1801: 448, 518, pl. 29, fig. 1 (Great Equatorial Ocean [Mauritius]).  
*Sparus hemisphaerium* Lacepède, 1802: 53, 160 (Madagascar).  
*Sparus brachion* Lacepède, 1802: 54, 160 (Madagascar).  
*Julis vanikorensis* Quoy & Gaimard, 1834: 704, pl. 20, fig. 1 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).  
*Xyrichtys altipinnis* Rüppell, 1835: 22, pl. 7 (Jidda [Jeddah], Saudi Arabia, Red Sea).  
*Julis bifer* Lay & Bennett, 1839: 64, pl. 18, fig. 2 (Oahu Id, Hawaiian Ids).  
*Novacula cephalotaenia* Bleeker, 1854c: 333 (Indonesia).  
*Novacula hoedtii* Bleeker, 1856a: 59 (Ambon, Indonesia).  
*Novacula kallosoma* Bleeker, 1860b: 5 (Ambon and Bali).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Hawaiian Ids, and tropical eastern Pacific.

REMARKS: Valenciennes redescribed *Labrus taeniourus* Lacepède as *Xyrichtys taeniurus* nob. (Val., 1840: 54) and *Julis vanikorensis* Quoy & Gaimard as *Xyrichtys vanikolensis* nob. (Val., 1840: 57).

***Novaculichthys woodi*** Jenkins

*Novaculichthys woodi* Jenkins, 1901: 52, fig. 8 (Honolulu).  
*Novaculichthys entargyreus* Jenkins, 1901: 53, fig. 9 (Honolulu, Oahu Id, Hawaiian Ids).  
*Novaculichthys tattoo* Seale, 1901b: 5, fig. 2 (Honolulu).  
*Xyrichtys sciistius* Jordan & Thompson 1914: 263, pl. 30, fig. 3 (Sagami Bay, Japan).

DISTRIBUTION: Hawaiian Ids and southern Japan.

***Novaculichthys* sp 1**

DISTRIBUTION: Lord Howe Id (Francis, 1993).

***Novaculichthys* sp 2**

DISTRIBUTION: Papua New Guinea.

***Novaculichthys* sp 3**

DISTRIBUTION: Easter Id.

**Genus *Ophthalmolepis*** Bleeker

*Ophthalmolepis* Bleeker, 1862a: 413 (type-species, *Julis lineolatus* Valenciennes, by original designation).

One species.

***Ophthalmolepis lineolatus*** (Valenciennes)

*Julis lineolatus* Val., 1839: 436 (Victoria, Australia).  
*Julis cyanogramma* Richardson, 1850: 73 (King George Sound, Western Australia).  
*Pseudojulis lineata* Castelnau, 1873: 138 (Fremantle, WA).  
*Julis adelaidensis* Castelnau, 1875: 35 (Adelaide).

DISTRIBUTION: Southern Queensland to southern and western Australia.

**Genus *Oxycheilinus*** Gill

*Oxycheilinus* Gill, 1863: 143 (type-species, *Cheilinus arenatus* Valenciennes, by original designation).

Twelve species, of which 4 are undescribed (Westneat, pers. comm.); Indo-Pacific. Synonymies are partially based on Fowler (1928) and de Beaufort (1940) and they should be considered provisional. The genus is currently under revision by M.W. Westneat, J.E. Randall and M.F. Gomon.

***Oxycheilinus arenatus*** (Valenciennes)

*Cheilinus arenatus* Val., 1840: 101, pl. 397 (Réunion Id).  
*Cheilinus notophthalmus* Bleeker, 1853d: 493 (Indonesia).

DISTRIBUTION: Red Sea, Indian Ocean to Micronesia and Samoa (in deep water).

***Oxycheilinus bimaculatus*** (Valenciennes)

*Cheilinus bimaculatus* Val., 1840: 96 (Honolulu).  
*Cheilinus ceramensis* Bleeker, 1852c: 290 (Indonesia).  
*Cheilinus mossambicus* Günther, 1862: 127 (Mozambique).  
*Cheilinus melanopleura* Bleeker, 1866: 134 (Ambon Id).  
*Cheilinus bifasciatus* Bleeker, 1871: 327, fig. 3 (Ambon).

DISTRIBUTION: Indo-Pacific, including Hawaiian Ids.

***Oxycheilinus celebicus*** (Bleeker)

*Cheilinus celebicus* Bleeker, 1853g: 171 (Indonesia).  
*Cheilinus hoevenii* Bleeker, 1862b: 297 (Indonesia).  
*Cheilinus oxyrhynchus* Bleeker, 1862b: 300 (Sulawesi; Ambon and Batjan; Indonesia).

DISTRIBUTION: Indo-Australian Archipelago and Japan.

***Oxycheilinus digramma*** (Lacepède)

*Labrus digramma* Lacepède, 1801: 448, 518, pl. 1, fig. 2 (Mauritius).  
*Sparus radiatus* Bloch & Schneider, 1801: 270 (East Indies).



*Cheilinus coccineus* Rüppell, 1828: 23 ([Jeddah, Red Sea).  
*Cheilinus commersoni* Bennett, 1832a: 167 (Mauritius).  
*Cheilinus radiatus* Val., 1840: 91 (Red Sea).  
*Cheilinus roseus* Val., 1840: 105 (Ulea, Caroline Ids).  
*Cheilinus lacrymans* Val., 1840: 109 (Indonesia).

DISTRIBUTION: Red Sea to western Pacific.

REMARKS: the name has been often incorrectly spelled *diagrammus* (Kyushin et al., 1977; Dor, 1984; Yamakawa in Masuda et al. 1984; Randall 1986a).

***Oxycheilinus mentalis* (Rüppell)**

*Cheilinus mentalis* Rüppell, 1828: 24 (Massawa, Eritrea).  
*Cheilinus venosus* Val., 1840: 100 (Suez, Red Sea).

DISTRIBUTION: Red Sea and Gulf of Aden.

***Oxycheilinus orientalis* (Günther)**

*Cheilinus orientalis* Günther (ex Bleeker), 1862: 132 (Batjan, Indonesia).

DISTRIBUTION: Indonesia to New Caledonia.

***Oxycheilinus rhodochrous* (Playfair & Günther)**

*Cheilinus rhodochrous* Playfair & Günther, 1867: 90, pl. 11, fig. 3 (Zanzibar).

DISTRIBUTION: Zanzibar.

REMARKS: erroneously regarded as the senior synonym of *Cheilinus unifasciatus* Streets by de Beaufort (1940). The citation by Masuda et al. (1984) appears to be a misidentification of *C. unifasciatus*. Provisionally, we consider it valid. Perhaps it is a deeper water fish not seen in normal diving depths.

***Oxycheilinus unifasciatus* (Streets)**

*Cheilinus polygramma* Val., 1840: 103 (Caroline Ids).  
*Cheilinus unifasciatus* Streets, 1877: 82 (Line Ids).  
*Chilinus [sic] hexagonatus* Günther, 1881: 287, pl. 135, fig. B (Yap Id; Hawaiian Ids).  
*Cheilinus zonurus* Jenkins, 1901: 56, fig. 13 (Johnson Id, central Pacific).  
*Cheilinus cingulatus* Weber, 1913: 365, pl. 9, fig. 5 (Binongka, Siboga sta. 220; Banda, Siboga sta. 240).

DISTRIBUTION: western and central Pacific, including Pitcairn Group.

REMARKS: This species was often misidentified as *Cheilinus rhodochrous*. Randall and Parenti (1999) proposed the rejection of *Cheilinus polygramma* in order to conserve *O. unifasciatus*.

***Oxycheilinus* sp 1**

DISTRIBUTION: Red Sea.

***Oxycheilinus* sp 2**

DISTRIBUTION: New Caledonia, southeastern Australia.

***Oxycheilinus* sp 3**

DISTRIBUTION: Indonesia.

***Oxycheilinus* sp 4**

DISTRIBUTION: Rarotonga, Cook Ids.

**Genus *Oxyjulis* Gill**

*Oxyjulis* Gill, 1863: 223 (type-species, *Halichoeres californicus* Günther, by original designation).

One species.

***Oxyjulis californica* (Günther)**

*Julis modestus* Girard, 1854: 151 (Monterey and San Diego, California; preoccupied by *Julis modestus* Bleeker, 1847 [= *Halichoeres chloropterus* (Bloch)]).  
*Halichoeres californicus* Günther, 1861: 386 *nomen novum* for *Julis modestus* Girard.

DISTRIBUTION: California to Baja California.

**Genus *Paracheilinus* Fourmanoir**

*Paracheilinus* Fourmanoir in Roux-Estève & Fourmanoir, 1955: 199 (type-species, *Paracheilinus octotaenia* Fourmanoir, by original designation).

Genus revised by Randall & Lubbock (1981); 13 species. Red Sea to Hawaiian Ids and Fiji.

***Paracheilinus angulatus* Randall & Lubbock**

*Paracheilinus angulatus* Randall & Lubbock, 1981: (21) 26, pl. 2, fig. D (Batangas, Luzon Id, Philippines).

DISTRIBUTION: Philippines.

***Paracheilinus attenuatus* Randall, 1999**

*Paracheilinus attenuatus* Randall, 1999: 34, figs 2–6 (St François, Amirante Ids, Seychelles).

DISTRIBUTION: Seychelles and off Kenya.

***Paracheilinus bellae* Randall**

*Paracheilinus bellae* Randall, 1988: 222, pls. 2, fig. D and 3, fig. H (Kwajalein Atoll, Marshall Ids).

DISTRIBUTION: Marshall Ids.

***Paracheilinus carpenteri* Randall & Lubbock**

*Paracheilinus carpenteri* Randall & Lubbock, 1981: 24, pl. 2, figs. A-B (Mactan Id, east of Cebu, Philippines).  
*Parachelinus* sp. 2 Debelius & Kuiter, 1994: 232.

DISTRIBUTION: Philippines, Indonesia, and Taiwan.



***Paracheilinus cyaneus* Kuitert & Allen**

*Paracheilinus cyaneus* Kuitert & Allen, 1999: 121, figs. 1-3 (Bandang Id, Banggai Ids, Indonesia).

DISTRIBUTION: Banggai Ids, Derawan Id, Sulawesi.

***Paracheilinus filamentosus* Allen**

*Paracheilinus filamentosus* Allen, 1974: 452, fig. 2 (Kranket Id, Madang, New Guinea).

DISTRIBUTION: East Indies.

***Paracheilinus flavianalis* Kuitert & Allen**

*Paracheilinus flavianalis* Kuitert & Allen, 1999: 123, figs. 4-7 (Scott Reef, Western Australia).

DISTRIBUTION: Indonesia, northwestern Australia.

***Paracheilinus hemitaeniatus* Randall & Harmelin-Vivien**

*Paracheilinus hemitaeniatus* Randall & Harmelin-Vivien, 1977: 338, fig. 4 (Tuléar, Madagascar).

DISTRIBUTION: Madagascar and South Africa (photograph by Dennis King of a specimen from KwaZulu-Natal, P.C. Heemstra, pers. comm.).

***Paracheilinus lineopunctatus* Randall & Lubbock**

*Paracheilinus lineopunctatus* Randall & Lubbock, 1981: 21, pl. 1, fig. B (Mactan Id, east of Cebu, Philippines).

DISTRIBUTION: Philippines.

***Paracheilinus mccoskeri* Randall & Harmelin-Vivien**

*Paracheilinus mccoskeri* Randall & Harmelin-Vivien, 1977: 332, fig. 2 (Grande Comore, Comoro Ids).  
*Paracheilinus* sp. 1 Debelius & Kuitert, 1994: 232.

DISTRIBUTION: western Indian Ocean, Comores, Persian Gulf, Maldives to Fiji.

***Paracheilinus octotaenia* Fourmanoir**

*Paracheilinus octotaenia* Fourmanoir in Roux-Estève & Fourmanoir, 1955: 199, fig. 1 (Abu Latt, Red Sea).

DISTRIBUTION: Red Sea.

***Paracheilinus piscilineatus* (Cornic)**

*Cirrhitilabrus piscilineatus* Cornic, 1987: 141 (Mauritius).

DISTRIBUTION: Mauritius.

***Paracheilinus togeanensis* Kuitert & Allen**

*Paracheilinus togeanensis* Kuitert & Allen, 1999: 127, fig. 8 (Batudaka Id, Togeans Islands, Indonesia).

DISTRIBUTION: Indonesia.

**Genus *Parajulis* Bleeker**

*Parajulis* Bleeker, 1865: 251 (type-species, *Julis poecilepterus* Temminck & Schlegel, by original designation).

One species.

***Parajulis poecilepterus* (Temminck & Schlegel)**

*Julis poecilepterus* Temminck & Schlegel, 1845: 169, pl. 86 bis, fig. 1 (Bay of Sinabara, Japan).

*Julis poecilopterus* Richardson, 1846b: 260 (China).

*Julis thirsites* Richardson, 1846b: 260 (Canton, China).

*Julis pyrrhogramma* Schlegel in Temminck & Schlegel, 1845: 170, pl. 86bis, fig. 2 (Nagasaki, Japan).

DISTRIBUTION: Korea, northern Japan at Hakodate to Taiwan and Hong Kong (but not Ryukyu Ids).

REMARKS: In a revision of *LeptoJulis*, Randall & Ferraris (1981), wrote "According to Nguyen Tri Truc (pers. comm.), who wrote his Ph D dissertation on the osteology of Japanese labrid fishes, *Julis poecilepterus* should be placed in the monotypic genus *Parajulis*." *Parajulis* is distinguishable from *Halichoeres* by the following combination of characters: vertebral number 9-10+17-18; second anal pterygiophore lies before first haemal spine; juncture of dentaries sutured; two pairs of enlarged anterior canines on each jaw; teeth on side of jaws small; epiotic-parietal-frontal crest meet ridge of median groove far from the junction of frontal; D IX, 14; A III, 14. In the literature the specific name is often spelled as *poecilopterus* (Masuda et al., 1984: 209; Shen, 1993: 459; Kuitert and Randall, 1995: 113).

**Genus *Pictilabrus* Gill**

*Pictilabrus* Gill, 1891: 403 (type-species, *Labrus laticlavus* Richardson, by monotypy).

Revised by Russell (1988); 3 species. Southern Australia.

***Pictilabrus brauni* Hutchins & Morrison**

*Pictilabrus brauni* Hutchins & Morrison, 1996: 39, figs. 1, 4, 7 (Cheyne Beach, Western Australia).

DISTRIBUTION: south coast of Western Australia.

***Pictilabrus laticlavus* (Richardson)**

*Labrus laticlavus* Richardson, 1840: 26 (Tasmania).

*Hemigymnus bleasdalei* Castelnau, 1875: 38 (Adelaide).

*Labrichthys labiosa* Macleay, 1881: 88, pl. 1, fig. 2 (Port Jackson, New South Wales, Australia).

*Eupetrichthys gloveri* Scott in Scott, Glover & Southcott, 1974: 303 (Thistle Id, South Australia).

DISTRIBUTION: New South Wales to western Australia.



***Pictilabrus viridis* Russell**

*Pictilabrus viridis* Russell, 1988: 38, figs. 8, 12-13, 15-18, 23; pl. 4e-f (Lucky Bay, Cape La Grande, W.A.).

DISTRIBUTION: southwestern Australia.

**Genus *Polylepion* Gomon**

*Polylepion* Gomon, 1977: 622 (type-species, *Bodianus russelli* Gomon & Randall, by original designation).

Two species. Eastern to western Pacific.

***Polylepion cruentum* Gomon**

*Polylepion cruentum* Gomon, 1977: 624, figs. 1, 2 left, 3 (eastern Pacific off Quepos, Costa Rica).

DISTRIBUTION: Gulf of California to Costa Rica.

***Polylepion russelli* (Gomon & Randall)**

*Bodianus russelli* Gomon & Randall, 1975: 444 (off Moku Manu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids, Society Ids, Marianas, and Okinawa (at depths over 100 m).

**Genus *Pseudocheilinus* Schultz**

*Pseudocheilinus* Schultz in Schultz et al., 1960: 128 (type-species, *P. ataenia* Schultz, by original designation).

One species.

***Pseudocheilinus ataenia* Schultz**

*Pseudocheilinus ataenia* Schultz in Schultz et al., 1960: 129, fig. 94 (Talisie Id, Sulawesi, Indonesia).

DISTRIBUTION: Indonesia, Philippines, and Micronesia.

**Genus *Pseudocheilinus* Bleeker**

*Pseudocheilinus* Bleeker, 1862a: 409 (type-species, *Cheilinus hexataenia* Bleeker, by original designation).

Genus revised by Randall (1999a); 7 species; Indo-Pacific.

***Pseudocheilinus citrinus* Randall**

*Pseudocheilinus citrinus* Randall, 1999: 5, pl. 1A (Pitcairn Id).

DISTRIBUTION: Cook, Austral and Pitcairn Ids.

***Pseudocheilinus dispilus* Randall**

*Pseudocheilinus dispilus* Randall, 1999a: 10, pl. 1B,C (Réunion).

DISTRIBUTION: Réunion and Mauritius.

***Pseudocheilinus evanidus* Jordan & Evermann**

*Pseudocheilinus evanidus* Jordan & Evermann, 1903: 192 (Hawaii, Hawaiian Ids).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia, Hawaiian and Marquesas Ids.

***Pseudocheilinus hexataenia* (Bleeker)**

*Cheilinus hexataenia* Bleeker, 1857c: 84 (Indonesia).

*Pseudocheilinus psittaculus*, Kner & Steindachner 1867: 376 [21], pl. 3, fig. 7 (Phoenix Ids, Pacific).

*Cossyphus echis* Guichenot, 1869: 197, pl. 12, fig. 5 (Madagascar).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Ryukyu, Johnston Id, Australia, Lord Howe and Tuamotu Ids, but not at the Hawaiian Ids.

***Pseudocheilinus ocellatus* Randall, 1999**

*Pseudocheilinus ocellatus* Randall, 1999a: 21, fig. 3, pls 1H, 2A (Laura Id, Majuro Atoll, Marshall Ids).

DISTRIBUTION: western-central Pacific, Japan and Pitcairn.

***Pseudocheilinus octotaenia* Jenkins**

*Pseudocheilinus octotaenia* Jenkins, 1901: 64, fig. 22 (Honolulu, Oahu Id, Hawaiian Ids).

*Pseudocheilinus margaretae* Smith, 1956a: 929, fig. 1 (Aldabra Id, Seychelles).

DISTRIBUTION: Indo-Pacific, from South Africa to Hawaiian Ids and Pitcairn Group.

***Pseudocheilinus tetrataenia* Schultz**

*Pseudocheilinus tetrataenia* Schultz in Schultz et al., 1960: 167, fig. 98 (Reer Id, Bikini Atoll, Marshall Ids).

DISTRIBUTION: Islands of Oceania, including Hawaiian Ids and Pitcairn Ids.

**Genus *Pseudocoris* Bleeker**

*Pseudocoris* Bleeker, 1862a: 411 (type-species, *Julis (Halichoeres) heteropterus* Bleeker, by original designation).

Five species (Chen & Shao, 1995). Indo-Pacific.

***Pseudocoris aurantiofasciata* Fourmanoir**

*Pseudocoris aurantiofasciatus* Fourmanoir, 1971: 130, fig. 2 (Rangiroa, Tuamotu Archipelago).

DISTRIBUTION: central and western Pacific.

***Pseudocoris bleekeri* (Hubrecht)**

*Coris bleekeri* Hubrecht, 1876: 214 (Moluccas, Indonesia).



*Coris philippina* Fowler & Bean, 1928: 309, pl. 42 (Sulade Id, Philippines).  
*Julis albolumbata* Schmidt, 1931: 87, fig. 8 (Okinawa Id).

DISTRIBUTION: Ryukyu Ids to Indonesia.

***Pseudocoris heteroptera* (Bleeker)**

*Julis (Halichoeres) heteropterus* Bleeker, 1857c: 78 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: South Africa, Seychelles to western Pacific.

***Pseudocoris ocellata* Chen & Shao**

*Pseudocoris ocellatus* Chen & Shao, 1995: 690, fig. 1 (Wanlitung, southern Taiwan).

DISTRIBUTION: Taiwan.

***Pseudocoris yamashiroi* (Schmidt)**

*Julis yamashiroi* Schmidt, 1931: 85, fig. 5 (Okinawa).  
*Julis awayae* Schmidt, 1931: 86, figs. 6-7 (Okinawa).

DISTRIBUTION: Indo-Pacific, Maldives to Japan and Samoa.

**Genus *Pseudodax* Bleeker**

*Pseudodax* Bleeker, 1861b: 229 (type-species, *Odax moluccanus* Valenciennes, by original designation).

One species.

***Pseudodax moluccanus* (Valenciennes)**

*Odax moluccanus* Val., 1840: 305, pl. 408, fig. 2 (Moluccas Ids, Indonesia).  
*Odax borbonicus* Val., 1840: 306 (Réunion Id).  
*Odax varius* Val., 1840: 307 (Ulea, Caroline Ids).  
*Pseudodax moluccensis* Günther, 1862: 208 (emendation).

DISTRIBUTION: Red Sea to South Africa, southern Japan, Society Ids, Marquesas and Tuamotu Ids.

REMARKS: Synonymy from Randall and Parenti (1999).

**Genus *Pseudojuloides* Fowler**

*Pseudojuloides* Fowler, 1949: 119 (type-species, *Pseudojulis cerasina* Snyder, by original designation).

Genus revised by Randall and Randall (1981); 11 species Red Sea to South Africa and Eastern Pacific.

***Pseudojuloides argyreogaster* (Playfair & Günther)**

*Pseudojulis argyreogaster* Playfair & Günther, 1867: 95, pl. 12, fig. 2 (Zanzibar).

DISTRIBUTION: Zanzibar, Seychelles.

***Pseudojuloides atavai* Randall & Randall**

*Leptojulis* sp. Randall, 1973: 198.

*Pseudojuloides atavai* Randall & Randall, 1981: 58, figs. 4-5 (Pitcairn Id).

DISTRIBUTION: French Polynesia, Pitcairn Group, Guam.

***Pseudojuloides cerasinus* (Snyder)**

*Pseudojulis cerasina* Snyder, 1904: 528 (Honolulu)

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Hawaiian Ids, and eastern Pacific.

***Pseudojuloides elongatus* Ayling & Russell**

*Pseudojuloides elongatus* Ayling & Russell, 1977: 174, figs. 4-6, 8-10 (Poor Knights Ids, New Zealand).

DISTRIBUTION: Japan, New Zealand, Australia.

***Pseudojuloides erythrops* Randall & Randall**

*Pseudojuloides erythrops* Randall & Randall, 1981: 71, figs. 13-14 (Mauritius).

DISTRIBUTION: Mauritius and Seychelles.

***Pseudojuloides inornatus* (Gilbert)**

*Pseudojulis inornatus* Gilbert, 1890: 67 (off Baja California, Mexico).

DISTRIBUTION: Baja California.

REMARKS: David G. Smith examined the holotype and only known specimen of this species at the U.S. National Museum of Natural History and confirmed that the dentition is that of the genus *Pseudojuloides*. The description of the colour of the specimen in preservative by Gilbert does not match of any species of the genus.

***Pseudojuloides kaleidos* Kuiter & Randall**

*Pseudojuloides kaleidos* Kuiter & Randall, 1995: 107, figs. 1-4 (Maldives).

DISTRIBUTION: Maldives and Indonesia.

***Pseudojuloides mesostigma* Randall & Randall**

*Pseudojuloides mesostigma* Randall & Randall, 1981: 68, figs. 11-12 (Philippines).

DISTRIBUTION: East Indies and Philippines.

***Pseudojuloides pyrius* Randall & Randall**

*Pseudojuloides pyrius* Randall & Randall, 1981: 62, figs. 6-7 (Tahuata, Marquesas Ids).

DISTRIBUTION: Marquesas Ids.



***Pseudojuloides severnsi* Bellwood & Randall**

*Pseudojuloides* sp. 1: Masuda & Kobayashi (1994)  
*Pseudojuloides severnsi* Bellwood & Randall, 2000: 1, figs 1-5 (Alor, Indonesia).

DISTRIBUTION: Ryukyu Ids and Alor, Indonesia.

***Pseudojuloides xanthomos* Randall & Randall**

*Pseudojuloides xanthomos* Randall & Randall, 1981: 67, fig. 10 (Gunner's Quoin, Mauritius).

DISTRIBUTION: Mauritius.

**Genus *Pseudolabrus* Bleeker**

*Pseudolabrus* Bleeker, 1862a: 413 (type-species, *Labrus rubiginosus* Temminck & Schlegel, by original designation).

*Lunolabrus* Whitley, 1933: 86 (type-species, *Labrus miles* Bloch & Schneider, by original designation, proposed as a subgenus).

Genus revised by Russell (1988) and Mabuchi and Nakabo (1997); 11 species. South Pacific, except two species from Japan, Korea, Taiwan and coast of China.

***Pseudolabrus biserialis* (Klunzinger)**

*Labrichthys biserialis* Klunzinger, 1880: 402 (King George Sound, Western Australia).

DISTRIBUTION: southwestern Australia.

***Pseudolabrus eoethinus* (Richardson)**

*Labrus eoethinus* Richardson, 1846b: 255 (Canton, China).  
*Labrus rubiginosus*, in part, Temminck & Schlegel, 1845: 165, pl. 86, fig. 1 (Japan; preoccupied by *Labrus rubiginosus* Risso, 1827 [= *Symphodus* sp.]).

DISTRIBUTION: Japan, Ogasawara Archipelago, and Korea to Hong Kong.

***Pseudolabrus fuentesi* (Regan)**

*Labrichthys fuentesi* Regan, 1913: 371, pl. 58, fig. 2 (Easter Id).

DISTRIBUTION: Easter Id to Austral Ids.

***Pseudolabrus gayi* (Valenciennes)**

*Labrus gayi* Val., 1839: 97 (Juan Fernández Ids).

DISTRIBUTION: Juan Fernandez Id and San Felix Id.

***Pseudolabrus guentheri* Bleeker**

*Pseudolabrus guentheri* Bleeker, 1862: 131 (Australia).  
*Labrichthys australis* Steindachner, 1866a: 476 (South Pacific).

*Pseudolabrus richardsonii* Steindachner, 1867b: 332 (Port Jackson, New South Wales, Australia).

*Labrichthys dorsalis* Macleay, 1881: 87 (Sydney).

*Labrichthys melanura* Macleay, 1881: 89 (Sydney).

*Labrichthys dux* De Vis, 1883: 287 (Queensland).

*Labrichthys cruentatus* De Vis, 1885: 879 (Queensland).

*Labrichthys maculatus* De Vis, 1885: 881 (Moreton Bay, Queensland; preoccupied by *Labrichthys maculata* Macleay 1881 [= *Austrolabrus maculatus*]).

*Labrichthys rex* De Vis, 1885: 880 (Queensland).

*Labrichthys sexlineatus* De Vis, 1885: 880 (Queensland).

DISTRIBUTION: east coast of Australia.

REMARKS: Günther (1862: 507) included the description of *Labrichthys guentheri* Bleeker from Bleeker's manuscript proofsheets.

***Pseudolabrus luculentus* (Richardson)**

*Labrus luculentus* Richardson, 1848: 130 (Norfolk Id).

DISTRIBUTION: New South Wales, Lord Howe Id, Kermadec Ids, Norfolk Id, and New Zealand.

***Pseudolabrus miles* (Forster)**

*Labrus miles* Forster in Bloch & Schneider, 1801: 264 (New Zealand).

*Julis ?rubecula* Richardson (ex Solander), 1843c: 423 (Queen Charlotte Sound, New Zealand).

*Julis ?rubiginosus* Richardson (ex Solander and Parkinson), 1843c: 425 (New Zealand).

*Labrichthys roseipunctata* Hutton, 1880: 455 (Dunedin, New Zealand).

*Pseudolabrus cossyphoides* Steindachner, 1900: 176 (New Zealand).

DISTRIBUTION: New Zealand.

***Pseudolabrus rubicundus* (Macleay)**

*Labrus psittaculus* Richardson 1840: 26 (Port Arthur, Tasmania; preoccupied by *Labrus psittaculus* Lacepède, 1801 [= *Halichoeres bivittatus* (Bloch)]).

*Labrichthys rubicunda* Macleay, 1881: 89 (King George Sound, Western Australia).

*Labrichthys mortonii* Johnston, 1885b: lxxxiv, xciv, 256 (mouth of Derwent River, Tasmania).

DISTRIBUTION: southeastern Australia.

***Pseudolabrus semifasciatus* (Rendahl)**

*Labrichthys semifasciatus* Rendahl, 1921: 65 (Easter Id).

DISTRIBUTION: Easter Id.

***Pseudolabrus sieboldi* Mabuchi & Nakabo**

*Labrus rubiginosus* Richardson, 1846: 255 (Japan; preoccupied by *Labrus rubiginosus* Risso, 1827 [= *Symphodus* sp.] and secondarily preoccupied by *Julis ?rubiginosus* Richardson, 1843 [= *Pseudolabrus miles*



(Fortser)]).

*Labrus rubiginosus* (in part) Temminck & Schlegel, 1846: 165 (Japan; preoccupied by *Labrus rubiginosus* Risso, 1827 and *Labrus rubiginosus* Richardson, 1846).  
*Pseudolabrus sieboldi* Mabuchi & Nakabo, 1997: 323 (Morode Beach, Ehime Pref., Japan).

DISTRIBUTION: southern Japan and Taiwan.

REMARKS: Mabuchi and Nakabo (1997) regarded *Labrus japonicus* Houttuyn, 1782 as a *nomen dubium* and proposed the new name *P. sieboldi* for the Japanese species most authors have identified as *P. japonicus* (Houttuyn).

***Pseudolabrus torotai* Russell & Randall**

*Pseudolabrus torotai* Russell & Randall, 1981: 437, fig. 4 (Rapa Id, South Pacific).

DISTRIBUTION: Rapa.

**Genus *Pteragogus* Peters**

*Pteragogus* Peters, 1855: 451 (type-species, *Cossyphus opercularis* Peters, by monotypy).

*Duymaeria* Bleeker, 1856a: 52 (type-species, *Duymaeria amboinensis* Bleeker, by subsequent designation).

*Labrastrum* Guichenot, 1860: 153 (type-species, *Ctenolabrus flagellifer* Valenciennes, by original designation).

Eight species (one undescribed). Indo-West Pacific.

***Pteragogus aurigarius* (Richardson)**

*Ctenolabrus aurigarius* Richardson, 1845: 90, pl. 45, figs. 1-2 (China seas near Canton).

*Ctenolabrus rubellio* Richardson, 1845: 93, pl. 45, fig. 3 (China seas near Canton).

*Crenilabrus spilogaster* Bleeker, 1854d: 416 (Nagasaki).

*Duymaeria japonica* Bleeker, 1856a: 53 (Nagasaki).

DISTRIBUTION: Japan and Taiwan.

***Pteragogus cryptus* Randall**

*Pteragogus cryptus* Randall, 1981b: 83 (Eilat, Israel, Gulf of Aqaba).

DISTRIBUTION: Indo-Pacific, Red Sea to Samoa.

***Pteragogus enneacanthus* (Bleeker)**

*Crenilabrus enneacanthus* Bleeker, 1853a: 120 (Ambon).

*Duymaeria amboinensis* Bleeker, 1856a: 54 (Ambon Id).

DISTRIBUTION: East Indies.

***Pteragogus flagellifer* (Valenciennes)**

*Labrus ramentosus* Forsskål, 1775: 34 (Yemen, Red Sea).

*Ctenolabrus flagellifer* Val., 1839: 240 (no locality).

*Crenilabrus nematopterus* Bleeker, 1851b: 250 (Banda

Neira, Banda Ids, Indonesia).

*Cossyphus filamentosus* Peters, 1855: 435 (Mozambique).

*Duymaeria caeruleomaculata* Günther, 1862: 122 (Aneityum [Aneiteum] Id, Vanuatu [New Hebrides]).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and western Pacific.

REMARKS: synonymy from Smith (1957a). Parenti & Randall (1998) proposed that the little-used name *Labrus ramentosus* Forsskål be suppressed.

***Pteragogus guttatus* (Fowler & Bean)**

*Duymaeria guttata* Fowler & Bean, 1928: 218 (Samar Id, Philippines).

DISTRIBUTION: Philippines, Indonesia and Palau.

***Pteragogus pelycus* Randall**

*Cossyphus opercularis* Peters, 1855: 451 (Mozambique; preoccupied by *Cossyphus opercularis* Guichenot, 1847 [= *Bodianus opercularis* (Guichenot)]).

*Pteragogus pelycus* Randall, 1981b: 82, pl. 1, figs. 1-2 *nomen novum* for *Cossyphus opercularis* Peters.

DISTRIBUTION: Western Indian Ocean, Red Sea to South Africa, Madagascar, Mauritius, and Seychelles; also eastern Mediterranean from Israel (Golani & Sonin) to Rhodes Id, Greece (Corsini & Economidis, 1999).

***Pteragogus taeniops* (Peters)**

*Cossyphus taeniops* Peters, 1855: 453 (Mozambique).

DISTRIBUTION: southern Mozambique to Zanzibar.

***Pteragogus* sp 1**

DISTRIBUTION: presently known only from Ogasawara Ids (Randall et al., 1997).

**Genus *Semicossyphus* Günther**

*Semicossyphus* Günther, 1861: 384 (type-species, *Cossyphus reticulatus* Valenciennes, by subsequent designation).

*Pimelometopon* Gill, 1864: 58 (type-species, *Labrus pulcher* Ayres, by original designation).

Three species; Japan and eastern Pacific. Gomon (1997) considered *Pimelometopon* as a synonym, but according to Maurizio Protti (who is currently reviewing the labroids of Chile) it is a valid genus.

***Semicossyphus darwini* (Jenyns)**

*Cossyphus darwini* Jenyns, 1842: 100, pl. 20 (Galápagos).  
*Labrus aper* Valenciennes, 1846: pl. 8, fig. 1 (Galápagos Ids; preoccupied by *Labrus aper* Retzius, 1800 [= *Labrus bergylta* Ascanius]; description published later [Valenciennes, 1855: 338]).

*Trochocopus canis* Philippi, 1887: 570 [38], pl. 7, fig. 3



(Iquique, Valparaíso, Chile).

*Dentex maculatus* Perez Canto, 1886: 12 (Valparaíso).

DISTRIBUTION: Ecuador to Chile, including Galápagos Ids.

REMARKS: synonymy from M. Protti (pers. comm.).

***Semicossyphus pulcher* (Ayes)**

*Labrus pulcher* Ayres, 1854: 174 (San Diego, California).

DISTRIBUTION: California to Gulf of California.

***Semicossyphus reticulatus* (Valenciennes)**

*Cossyphus reticulatus* Val., 1839: 139 (Japan).

*Semicossyphus robecchii* Steindachner & Bellotti in Steindachner & Döderlein, 1887: 271 (Yokohama).

DISTRIBUTION: Japan, Korea and China.

**Genus *Stethojulis* Günther**

*Stethojulis* Günther, 1862: 386 (type-species, *Julis strigiventer* Bennett, by subsequent designation).

*Hinalea* Jordan & Jordan, 1922: 69 (type-species *Julis axillaris* Quoy & Gaimard, by original designation).

*Rhytejulis* Fowler & Bean, 1928: 232, 241 (type-species, *Labrus trilineatus* Bloch & Schneider, by original designation).

Genus revision by Randall (2000); 10 species. Red Sea to eastern Pacific.

***Stethojulis albobittata* (Bonnaterre)**

*Labrus albobittatus* Bonnaterre, 1788: 108, pl. 98 (no locality).

*Labrus koelreuteri* Walbaum, 1792: 262 (no locality).

DISTRIBUTION: Red Sea and western Indian Ocean.

***Stethojulis balteata* (Quoy & Gaimard)**

*Julis balteatus* Quoy & Gaimard, 1824: 267, pl. 56, fig. 1 (Maui, Hawaiian Ids).

*Julis axillaris* Quoy & Gaimard, 1824: 272 (Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

***Stethojulis bandanensis* (Bleeker)**

*Julis (Halichoeres) bandanensis* Bleeker, 1851b: 254 (Banda Neira, Banda Ids, Indonesia).

?*Julis sukl* Montrouzier, 1857: 473 (Woodlark Id)

*Stethojulis fulvoventris* Seale, 1901a: 92 (Guam).

*Stethojulis rubromacula* Scott, 1959: 87, fig. 7 (Shark Bay, Western Australia).

*Stethojulis linearis* Schultz in Schultz et al., 1960: 214, pl. 107, fig. E (Enyu Id, Bikini Atoll, Marshall Ids).

DISTRIBUTION: western Pacific to islands of the tropical eastern Pacific.

***Stethojulis interrupta* (Bleeker)**

*Labrus chlorocephalus* Bloch & Schneider 1801: 254 (India).

*Julis (Halichoeres) interruptus* Bleeker, 1851b: 252 (Banda Neira, Banda Ids, Indonesia).

*Julis (Halichoeres) kalosoma* Bleeker, 1852c: 289 (Ambon Id, Moluccas Ids, Indonesia).

*Stethojulis kallosoma* Bleeker, 1862b: 290 (unjustified emendation of *Julis (Halichoeres) kalosoma* Bleeker).

*Stethojulis zatima* Jordan & Seale, 1905: 788, fig. 9 (Negros, Philippines).

DISTRIBUTION: Indo-West Pacific from South Africa to the Philippines, Indonesia and eastern Australia.

REMARKS: the holotype of *Labrus chlorocephalus* (ZMB 2619, 54 mm SL) was examined by H.-J. Paepke with a key to species of *Stethojulis* by Randall and Kay (1974), and he concluded that it is *Stethojulis interrupta*. Randall and Parenti (1999) proposed the rejection of the name *Labrus chlorocephalus* in order to conserve the well known *Stethojulis interrupta*.

***Stethojulis maculata* Schmidt**

*Stethojulis maculatus* Schmidt, 1931: 81, pl. 5, fig. 1 (Kominato, Amami-Oshima Id, Ryukyu Ids, Japan).

DISTRIBUTION: anti-equatorial; Ryukyu Ids, Fiji, Norfolk Id.

***Stethojulis marquesensis* Randall, 2000**

*Stethojulis marquesensis* Randall, 2000: 20, fig. 5, pls III C, D (Uaa Huka, Marquesas Ids).

DISTRIBUTION: Marquesas Islands.

***Stethojulis notialis* Randall**

*Stethojulis notialis* Randall, 2000: 22, fig. 7, pls IC, D (Nukulau Id, Fiji Ids).

DISTRIBUTION: Fiji Islands, New Caledonia, Norfolk Id.

***Stethojulis strigiventer* (Bennett)**

*Julis strigiventer* Bennett, 1832c: 184 (Mauritius).

*Julis (Halichoeres) renardi* Bleeker, 1851b: 253 (Banda Neira, Banda Ids, Indonesia).

*Stethojulis psacas* Jordan & Snyder, 1902: 629, fig. 5 (Naha, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: South Africa to western Pacific and Samoa.

***Stethojulis terina* Jordan & Snyder**

*Stethojulis terina* Jordan & Snyder, 1902: 631, fig. 6 (Misaki, Kanagawa Pref., Sagami Sea, Japan).

*Stethojulis trossula* Jordan & Snyder, 1902: 633, fig. 7 (Misaki, Kanagawa Pref., Sagami Sea, Japan).

DISTRIBUTION: Honshu, Japan to Taiwan and Hainan



***Stethojulis trilineata* (Bloch & Schneider)**

*Labrus trilineatus* Bloch & Schneider, 1801: 253 (India).  
*Julis sebanus* Val., 1839: 474 (no locality).  
*Julis (Halichoeres) phCADOPLEURA* Bleeker, 1849b: 8  
(Boleling, northern Bali, Indonesia).  
*Julis (Halichoeres) casturi* Bleeker, 1852g: 768 (Ujung  
Pandang, Celebes, Indonesia).  
*Julis sukl* Montrouzier, 1857: 473 (Woodlark Id).  
*Halichoeres sebae* Kner, 1860: 12, pl. 1, fig. 9 (no  
locality).  
*Stethojulis casturi* Günther, 1881: 255 (Oceania: Palau,  
Yap, and Futuna).  
*Stethojulis phCADOPLEURA* Martens, 1876: 397 (Ambon,  
Moluccas Ids, Indonesia).  
*Stethojulis filholi* Sauvage, 1880: 225 (Fiji Ids).

DISTRIBUTION: Maldives, to western Pacific and Samoa.

**Genus *Suezichthys* Smith**

*Suezia* Smith, 1957a: 100, 106 (type-species, *Labrichthys*  
*caudovittatus* Steindachner, by original designation,  
preoccupied in Crustacea).  
*Suezichthys* Smith, 1958: 319 (replacement name for  
*Suezia* Smith, 1957).

Genus revised by Russell (1985); 10 species, and one  
undescribed species. Indo-Pacific.

***Suezichthys arquatus* Russell**

*Suezichthys arquatus* Russell, 1985: 15, pl. 3, figs A-B);  
Figs. 1, 6c, 7b (Poor Knights Id, New Zealand).

DISTRIBUTION: New Zealand, New Caledonia, eastern  
Australia, Lord Howe Id, and Norfolk Id; also recorded  
from Honshu, Japan (Araga et al., 1988) and  
Ogasawara Ids (Randall et al. (1997).

***Suezichthys aylingi* Russell**

*Suezichthys aylingi* Russell, 1985: 5, pl. 1, figs A-B (Poor  
Knights Id, New Zealand).

DISTRIBUTION: New Zealand and southeastern Australia.

***Suezichthys bifurcatus* Russell**

*Suezichthys bifurcatus* Russell, 1986: 59, figs. 1-2 (Great  
Australian Bight, 34°20'-34°21'S, 123°42'-123°43'E).

DISTRIBUTION: western Australia.

***Suezichthys caudavittatus* (Steindachner)**

*Labrichthys caudavittatus* Steindachner, 1898a: 199 (Suez,  
Red Sea).  
*Labrichthys caudovittatus* Steindachner, 1898b: 783, pl. 1  
(further description and illustration).

DISTRIBUTION: Red Sea, Somalia, and Persian Gulf.

REMARKS: Spelt *caudovittatus* by Dor (1984: 208) and  
Russell (1985: 10).

***Suezichthys cyanolaemus* Russell**

*Suezichthys cyanolaemus* Russell, 1985: 13, pl. 2, figs. C-  
D; fig. 7a (RottneSt Id, Western Australia).

DISTRIBUTION: southwestern Australia.

***Suezichthys devisi* (Whitley)**

*Guntheria devisi* Whitley, 1941: 36, fig. 24 (Queensland).

DISTRIBUTION: eastern Australia.

REMARKS: Russell (1985) regarded this species as a  
synonym of *S. gracilis*, but it is now considered valid  
(R.H. Kuiter, 1993 and B.C. Russell, pers. comm.).

***Suezichthys gracilis* (Steindachner & Döderlein)**

*Labrichthys gracilis* Steindachner & Döderlein, 1887: 273  
(Tokyo, Japan).

DISTRIBUTION: Persian Gulf, Viet Nam, Taiwan, Japan,  
and Korea.

***Suezichthys notatus* (Kamohara)**

*Pseudolabrus notatus* Kamohara, 1958: 8, pl. 3, fig. 2  
(Okinoshima, Kochi Pref., Japan).  
*Suezichthys tripunctatus*, in part, Randall & Kotthaus,  
1977: 34 (Oahu Id, Hawaiian Ids).

DISTRIBUTION: Japan, Australia, Hawaiian Ids.

***Suezichthys russelli* Randall**

*Suezichthys russelli* Randall, 1981: 90, pl. 2, fig. 5 (Ras  
Abu-Galum, Sinai Peninsula, Gulf of Aqaba, Red Sea).  
*Suezichthys tripunctatus*, in part, Randall & Kotthaus,  
1977: 34 (Indian Ocean paratypes).

DISTRIBUTION: Red Sea to Kenya.

***Suezichthys soelae* Russell**

*Suezichthys soelae* Russell, 1985: 9, pl. 2, figs. A-B  
(Northwest Shelf [20°29.4'S, 116°10.0'E], Australia).

DISTRIBUTION: northwestern Australia, Okinawa and  
Ogasawara Ids (Randall et al., 1997).

***Suezichthys* sp 1**

DISTRIBUTION: southwestern Australia.

REMARKS: species currently under study by J.B. Hutchins.

**Genus *Symphodus* Rafinesque**

*Symphodus* Rafinesque, 1810a: 41 (type-species, *S.*  
*fulvescens* Rafinesque, by subsequent designation).



*Corycus* Cuvier, 1814: 89 (type-species, *Lutjanus rostratus* Bloch, by subsequent designation; spelt *Coricus* in Cuvier, 1816: 263)

*Crenilabrus* Oken (ex Cuvier), 1817: 1182a (type-species, *Labrus lapina* Forsskål, by subsequent designation).

Ten species (Bauchot & Quignard, 1973; Gomon & Forsyth, 1990). Eastern Atlantic, Mediterranean, and Black Sea.

#### *Symphodus bailloni* (Valenciennes)

?*Labrus pirca* Walbaum 1792: 265 (no locality [Adriatic Sea]).

*Crenilabrus donovani* Val., 1839: 39 (Brittany).

*Crenilabrus bailloni* Val., 1839: 191 (La Manche, France).

DISTRIBUTION: Eastern Atlantic from North Sea to Mauritania, and western Mediterranean.

REMARKS: *Labrus pirca* Walbaum was based on a fish described but not named by Brünnich (1768: 97). Bloch & Schneider (1801: 256) reported *Labrus pirca* from the Adriatic Sea. Tortonese (1970) suggested that *Labrus pirca* may represent an older name for *Symphodus bailloni* (Valenciennes); the combination *Symphodus pirca* was also used by Jordan (1890).

#### *Symphodus cinereus* (Bonnaterre)

*Labrus cinereus* Bonnaterre, 1788: 118 (Mediterranean).

*Labrus griseus* Gmelin, 1789: 1296 (Mediterranean).

*Labrus rubellio* Walbaum 1792: 264 (no locality).

*Lutjanus cornubicus* Risso, 1810: 267 (Nice, France).

*Lutjanus massa* Risso, 1810: 274, pl. 8, fig. 26 (Nice).

*Lutjanus cotta* Risso, 1810: 282 (Nice, France).

?*Labrus fucii* Rafinesque, 1810a: 38 (Sicily, Italy).

*Labrus fuscus* Pallas, 1814: 266 (Crimea, Ukraine; preoccupied by *Labrus fuscus* Gmelin, 1789 [= *S. mediterraneus* (Linnaeus)], *Labrus fuscus* Walbaum, 1792 [= *S. mediterraneus*] and *Labrus fuscus* Lacepède, 1801 [= *Thalassoma trilobatum* (Lacepède)]).

*Labrus fraenatus* Pallas 1814: 270 (ad littore Taurica [coast of Ukraine]).

?*Labrus simus* Pallas 1814: 271 (Tauriae [Ukraine]).

?*Labrus donzella* Nardo, 1824: 254 (Adriatic Sea; preoccupied by *Labrus donzella* Rafinesque, 1810a [= *Thalassoma pavo* (Linnaeus)]).

?*Lutianus core* Nardo, 1827: 30 (Adriatic Sea; *nomen novum* for *Labrus donzella* Nardo).

*Crenilabrus fraenatus* Bennett, 1835: 91 (Black Sea).

*Crenilabrus staitii* Nordmann, 1840: 452, pl. 18, fig. 2 (Odessa, Ukraine).

*Crenilabrus pusillus* Nordmann, 1840: 454, pl. 18, fig. 2 (Lustdorff, Odessa, Ukraine).

DISTRIBUTION: eastern Atlantic from bassin d'Arcachon to Gibraltar; Mediterranean; the subspecies *S. cinereus staitii* is found also in the Black Sea.

REMARKS: *Labrus griseus* Gmelin and *Labrus rubellio* Walbaum are based on *Labrus n.* 75 of Brünnich (1768: 58). Bonaparte's (1846) listing of *Labrus simus* as a synonym was questioned by Günther (1862).

*Labrus donzella* Nardo (described independently of Rafinesque) is a probable synonym of *Symphodus cinereus*. *Lutianus core* is a replacement name listed afterward as *Crenilabrus core* Nardo (1860).

#### *Symphodus doderleini* Jordan

*Crenilabrus tinca* Val., 1837: 199 (Mediterranean Sea; based on *Labrus tinca* (non Linnaeus): Brünnich, 1768: 55; secondarily preoccupied in *Symphodus* by *Labrus tinca* Linnaeus).

*Symphodus doderleini* Jordan, 1890: 618 (probably near Marseille, France).

DISTRIBUTION: Mediterranean, Bosphorus, Marmara Sea.

#### *Symphodus mediterraneus* (Linnaeus)

*Perca mediterranea* Linnaeus, 1758: 291 [Mediterranean].  
*Labrus coeruleovittatus* Bonnaterre, 1788: 117 (Mediterranean).

*Labrus serpentinus* Bonnaterre, 1788: 117 (Mediterranean).

*Labrus fuscus* Gmelin 1789: 1295 (Mediterranean).

*Labrus unimaculatus* Gmelin, 1789: 1295 (Mediterranean).

*Lutjanus bidens* Bloch, 1790: 123, pl. 251, fig. 1 (no locality).

*Labrus erithrophthalmus* Walbaum 1792: 263 (no locality; based on *Labrus n.* 73 Brünnich (1768: 57) and *Labrus unimaculatus* Gmelin).

*Labrus fuscus* Walbaum 1792: 263 (no locality; based on *Labrus n.* 72 Brünnich (1768: 56); preoccupied by *Labrus fuscus* Gmelin, 1789).

*Labrus mediterraneus* Bloch & Schneider (ex Brunnich) 1801: 255 (Mediterranean Sea).

*Lutjanus brunnichii* Lacepède, 1802: 184, 222 (Mediterranean Sea).

*Lutjanus massiliensis* Lacepède, 1802: 184, 222 (Mediterranean Sea).

*Labrus pittima* Rafinesque, 1810a: 36 (Sicily, Italy).

*Lutjanus chlorosochrus* Risso, 1810: 275, pl. 8, fig. 27 (Nice, France).

*Labrus bidens* Nardo, 1824b: 253 (Adriatic Sea).

*Crenilabrus nigrescens* Risso, 1827: 263 (Nice, France).

*Crenilabrus boryanus* Risso, 1827: 320 (Nice, France).

*Crenilabrus pictus* Lowe, 1838: 186 (Madeira).

DISTRIBUTION: Mediterranean and Marmara Sea; eastern Atlantic from Portugal to Morocco, Madeira, and Azores.

REMARKS: The holotype of *Lutjanus chlorosochrus* is lost (Bauchot, 1963); based on Risso's original description, the first author concluded that it is *Symphodus mediterraneus*. Nardo (1824) added "*nobis*" to the name *Labrus bidens* and doubted that his species was the same as *Lutjanus bidens* Bloch.

#### *Symphodus melanocercus* (Risso)

*Lutjanus melanocercus* Risso, 1810: 283 (Saint Hospice, near Villefranche, France, Mediterranean).

*Crenilabrus caeruleus* Risso, 1827: 316, pl. 10, fig. 25 (probably Mediterranean).



*Crenilabrus cyanospilatus* Cocco, 1840: 242 (Sicily, Italy).  
*Crenilabrus melanoxanthurus* Cocco, 1840: 243 (Sicily).

DISTRIBUTION: Mediterranean and Marmara Sea.

REMARKS: Facciola (1916) synonymized *Crenilabrus cyanospilatus* and *C. melanoxanthurus* with *S. melanocercus*.

#### *Symphodus melops* (Linnaeus)

*Labrus melops* Linnaeus, 1758: 286 (southern Europe).  
*Labrus rone* Ascanius, 1772: 6, pl. 14 (Norway).  
*Labrus gibbosus* Bonnaterre, 1788: 112, pl. 99, fig. 403 (Seas of Great Britain).  
*Labrus goldsinny* Bonnaterre, 1788: 112, pl. 99, fig. 404 (Seas of Great Britain).  
*Labrus gibbus* Gmelin, 1789: 1295 (Great Britain).  
*?Labrus cornubius* Gmelin, 1789: 1297 (England).  
*Lutjanus norvegicus* Bloch, 1791: 11, pl. 256 (Norway).  
*Labrus tessellatus* Bloch, 1792: 8, pl. 291, fig. 1 (Norway).  
*Perca maculosa* Retzius, 1800: 337 (Sweden).  
*Labrus ascanii* Shaw, 1803: 512 (Northern Seas; *nomen novum* for *Labrus rone* Ascanius 1771).  
*Crenilabrus couchii* Val., 1839: 178 (no locality).  
*Crenilabrus pennantii* Val., 1839: 178 (no locality).  
*Crenilabrus locaninus* Gulia, 1861: 16 (Malta).

DISTRIBUTION: western Mediterranean and Adriatic Sea, northeastern Atlantic from Norway to Morocco.

REMARKS: The text for *Lutjanus norvegicus* Bloch, 1791 refers to pl. 256 in which the name *Lutianus norve* is used. This species was spelled *norvegicus* in Bloch's Ichthyologie (1797: 9) and Lacepède (1802: 233). Günther (1862) listed *Perca maculosa* as a synonym. *Crenilabrus locaninus* Gulia is a new synonym.

#### *Symphodus ocellatus* (Forsskal)

*?Labrus ocellaris* Linnaeus 1758: 285 (no locality).  
*Labrus ocellatus* Forsskal, 1775: 37 (Smyrne, Turkey).  
*Labrus olivaceus* Bonnaterre, 1788: 117 (Mediterranean).  
*Labrus reticulatus* Bonnaterre, 1788: 117 (Mediterranean).  
*Labrus guttatus* Bonnaterre 1788: 118 (Mediterranean).  
*Labrus guttatus* Gmelin, 1789: 1296 (no locality; preoccupied by *Labrus guttatus* Bonnaterre 1788).  
*Labrus venosus* Gmelin, 1789: 1296 (Mediterranean Sea).  
*Labrus olivaceus* Walbaum 1792: 263 (no locality; preoccupied by *Labrus olivaceus* Bonnaterre, 1788).  
*Labrus venosus* Walbaum, 1792: 264 (no locality; preoccupied by *Labrus venosus* Gmelin, 1789).  
*Labrus guttatus* Walbaum 1792: 265 (no locality; preoccupied by *Labrus guttatus* Bonnaterre 1788, *Labrus guttatus* Gmelin 1789 and *Labrus guttatus* Bloch 1791 [= *Halichoeres argus* (Bloch & Schneider)]).  
*Labrus rubens* Bloch & Schneider (ex Brunnich) 1801: 256 (Mediterranean Sea).  
*Labrus mendovella* Rafinesque 1810b: 23, 54 (Sicily).  
*?Lutjanus ruber* Rafinesque, 1810b: 63 (Sicily).  
*?Lutjanus flavus* Rafinesque, 1814: 18 (Mediterranean).  
*Labrus perspicillatus* Pallas, 1814: 267 ("Mari Tauricam Chersonesum circumfluente" [Crimea, Ukraine]).  
*Labrus dubbius* Nardo, 1824a: 255 (Adriatic Sea).

*Lutjanus eques* Nardo, 1827: 30 (Adriatic Sea; *nomen novum* for *Labrus dubbius* Nardo).

*Crenilabrus littoralis* Risso, 1827: 322 (Nice).

*Crenilabrus rissoi* Val., 1839: 197 (Naples, Palermo, Sicily, Italy).

*Crenilabrus morelli* Nordmann, 1840: 459, pl. 18, fig. 5 (Sevastopol and Yalta, Crimea, Ukraine).

*Crenilabrus argenteostriatus* Nordmann, 1840: 461, pl. 18, fig. 4 (Sevastopol, Crimea, Ukraine).

*?Scarus maculatus* Gronow in Gray, 1854: 63 (no locality).

*Crenilabrus dubius* Gulia, 1861: 13 (Malta).

*Crenilabrus schemberianus* Gulia, 1861: 13 (Malta).

*Crenilabrus zeraphinus* Gulia, 1861: 13 (Malta).

*?Crenilabrus aurantiacus* Cocco in Facciola, 1885: 231 (Messina, Sicily, Italy).

*Crenilabrus bertini* Pras, 1961: 12 (southwest of Les Salins d'Hyères, Mediterranean coast of France).

DISTRIBUTION: Mediterranean, Black Sea and Sea of Azov.

REMARKS: *Labrus ocellaris* Linnaeus probably represents the current *Symphodus ocellatus* (Forsskal); as reported by Valenciennes (1839), the status remains doubtful due to the inadequate description. *Crenilabrus aurantiacus* Cocco was reported as a synonym by Facciola (1916) but it is regarded as unidentifiable by di Caporiacco (1921). *Labrus reticulatus* Bonnaterre, *Labrus venosus* Gmelin, and *Labrus venosus* Walbaum are all based on *Labrus* n. 74 (Brünnich, 1768: 58). *Labrus rubens* Bloch & Schneider is based on *Labrus* n. 71 (Brünnich, 1768: 56) already described by Bonnaterre as *Labrus olivaceus*. *Labrus olivaceus* Walbaum and *Labrus guttatus* Walbaum are based on *Labrus* n. 71 and n. 76 (Brünnich, 1768: 56 & 59), respectively. *Labrus mendovella* Rafinesque is a synonym as proposed by Cocco (Facciola, 1885). *Lutjanus flavus* Rafinesque is a probable synonym. *Scarus maculatus* Gronow is based in part on *Labrus ocellaris* Linnaeus; Ninni (1912) placed the species *Labrus dubbius* Nardo (spelled *dubius* in Nardo 1824b) into synonymy with *Symphodus rostratus*. However, Nardo (1824a) includes in his description typical features of *ocellatus*, such as the presence of a large red-ringed blue spot on the opercle and another small dark spot at the caudal fin base. *Lutjanus eques*, a new name for *Labrus dubbius*, was thereafter spelled *Coricus aequus* (Nardo, 1860). *Crenilabrus dubius*, *Crenilabrus schemberianus* and *Crenilabrus zeraphinus* are new synonyms.

#### *Symphodus roissali* (Risso)

*Lutjanus roissali* Risso, 1810: 276, pl. 8, fig. 28 (Nice).

*Lutjanus alberti* Risso, 1810: 277 (Nice).

*Labrus oculisperdix* Rafinesque 1810a: 239 (Sicily).

*Labrus aeruginosus* Pallas, 1814: 264 ("Meridionali Tauriae" [Crimea, Ukraine]).

*Labrus capistratus* Pallas, 1814: 269 ("Sinu Theodosiano" [Crimea, Ukraine]).

*Crenilabrus tigrinus* Risso, 1827: 317, pl. 10, fig. 26 (Nice).

*Crenilabrus quinque maculatus* Risso, 1827: 324, pl. 10, fig. 23 (Nice).

*Crenilabrus arcuatus* Risso, 1827: 328, pl. 16 (Nice).



DISTRIBUTION: Mediterranean, Black Sea, Atlantic coast of Spain.

***Symphodus rostratus* (Bloch)**

?*Labrus scina* Forsskål, 1775: 36 (Istanbul, Turkey).  
*Lutjanus rostratus* Bloch, 1791: 7, pl. 254, fig. 2 (no locality).  
*Lutjanus virescens* Bloch, 1791: 5, pl. 254, fig. 1 (no locality).  
*Symphodus fulvescens* Rafinesque, 1810a: 41 (Sicily).  
? *Labrus macrostomus* Rafinesque 1810a: 36 (Sicily).  
? *Labrus pitimoides* Rafinesque 1810a: 36 (Sicily).  
? *Labrus verdolidus* Rafinesque, 1810a: 36 (Sicily).  
*Lutjanus rubescens* Risso, 1810: 271 (Nice).  
*Lutjanus lamarckii* Risso, 1810: 281, pl. 9, fig. 29 (Nice).  
*Labrus acatirostreus* Nardo, 1824a: 254 (Adriatic Sea).  
*Coricus brama* Nordmann, 1840: 464, pl. 20, fig. 1 (Ukraine).

DISTRIBUTION: Mediterranean and Black Sea.

REMARKS: Jordan (1890: 623) used *Symphodus scina* as the valid name for this species. This decision was followed by some authors (Dieuzeide & Novella, 1955: 95; Svetovidov, 1964: 331) and used in popular guides (e.g. Costa, 1991: 340). Tortonese (1970) wrote "...the name applied by Forsskål cannot be maintained because the author indicated the lateral line as interrupted...". *Labrus macrostomus*, *Labrus pitimoides* and *Labrus verdolidus* are synonyms according to Bonaparte (1846) and Cocco (Facciola, 1885). *Labrus acatirostreus* is perhaps a misspelling for "*acutirostreus*"; however, Nardo (1824a) spelt *acatirostreus* three times in Latinized form and again in a later publication (Nardo, 1824b). The name was later changed to *Lutjanus acutirostreus* (Nardo, 1827: 30), and it is here recognized as a new synonym of *rostratus*.

***Symphodus tinca* (Linnaeus)**

*Labrus tinca* Linnaeus, 1758: 285 (British Seas).  
*Labrus lapina* Forsskål, 1775: 36 (Istanbul, Turkey).  
*Lutjanus linkii* Bloch, 1790: 127, pl. 252 (no locality; spelt *linckii* on plate).  
*Labrus violaceus* Bloch & Schneider, 1801: 248 (*nomen novum* for *Lutjanus linkii* Bloch, 1790).  
? *Labrus flavescens* Bloch & Schneider 1801: 260 (no locality).  
*Labrus tancoides* Lacepède, 1801: 439 (British rivers).  
*Lutjanus geofroyius* Risso, 1810: 261, pl. 8, fig. 25 (Nice).  
? *Labrus caliophthalmus* Rafinesque 1810a: 37 (Sicily).  
? *Labrus chrysostoma* Rafinesque 1810a: 37 (Sicily).  
? *Labrus lappanoides* Rafinesque 1810a: 39 (Sicily).  
? *Labrus lappanus* Rafinesque 1810a: 39 (Sicily).  
? *Labrus chlorophthalmus* Rafinesque 1810a: 40 (Sicily).  
? *Labrus marmoratus* Rafinesque 1810a: 41 (Sicily; preoccupied by *Labrus marmoratus* Lacepède, 1801 in Cirrhitidae).  
*Labrus polychrous* Pallas, 1814: 262 ("Ponto").  
*Labrus niger* Nardo 1824b: 253 (Adriatic Sea).  
*Labrus sanguineus* Nardo 1824b: 254 (Adriatic Sea).  
*Crenilabrus geoffroyi* Risso, 1827: 314 (Nice).

*Crenilabrus propinquus* Gulia, 1861: 17 (Malta).

DISTRIBUTION: Mediterranean, northeastern Atlantic from Spain to Morocco.

REMARKS: *Labrus chlorophthalmus*, *Labrus chrysostoma* and *Labrus lappanoides* are probable synonyms (Cocco in Facciola, 1885). Most of the labrid species descriptions by Rafinesque are inadequate, consequently they were not included in the checklist of north-eastern and Atlantic and the Mediterranean (Bauchot, pers. comm.). In the *Histoire Naturelle des Poissons* de Cuvier et Valenciennes, Valenciennes (1839) cites Rafinesque only two times. At page 188 he wrote: "...Je ne fais mention de cet auteur (Rafinesque) que pour avertir le lecteur qu'il m'a été impossible de reconnaître la plupart des espèces mentionnées dans son ouvrage". *Crenilabrus propinquus* Gulia is a variant of *Lutjanus geofroyius* Risso. Nardo (1827) placed *sanguineus* and *niger* as synonyms of *Labrus pavo* Brünnich (*nec* Linnaeus), 1768. The name *Labrus pavo* was often used in the literature for the fish known as *Labrus tinca*; Valenciennes (Cuvier and Valenciennes, 1839: 149) in redescribing this species as *Crenilabrus pavo nob.* commented (page 154) "Il me semble donc que l'on pourrait regarder le *labrus tinca* comme étant en quelque sorte, par la pensée d'Artedi, le nom qui doit être attribué à l'espèce décrite dans ce chapitre". Bonaparte (1846) emended *Crenilabrus geoffroyi* to *Crenilabrus geoffroyi*.

**Genus *Tautoga* Mitchill**

*Tautoga* Mitchill, 1814: 23 (type-species, *Tautoga niger* Mitchill, by subsequent designation).  
*Hiatula* Lacepède, 1800: 522 (type-species, *Hiatula gardeniana* Lacepède, by monotypy, preoccupied by *Hiatula* Modeer 1792 in Mollusca, not replaced).

One species (Jordan et al., 1930).

***Tautoga onitis* (Linnaeus)**

*Labrus onitis* Linnaeus, 1758: 286 (no locality).  
*Labrus hiatula* Linnaeus, 1766: 475 (Carolina, U.S.A.).  
*Labrus carolinus* Bonnaterre, 1788: 113 (Carolina).  
*Labrus subfuscus* Walbaum, 1792: 254 (North America).  
*Hiatula gardeniana* Lacepède, 1800: 522, 523 (Carolina).  
*Labrus americanus* Bloch & Schneider, 1801: 261 (New York).  
*Tautoga niger* Mitchill, 1814: 23 (New York).  
*Tautoga niger* var. *alius* Mitchill, 1814: 24 (New York).  
*Tautoga niger* var. *fuscus* Mitchill, 1814: 24 (New York).  
*Tautoga niger* var. *rubens* Mitchill, 1814: 24 (New York).  
*Labrus tautoga* Mitchill, 1815: 399, pl. 1, fig. 1 (unnneeded replacement for *Tautoga niger* Mitchill 1814).

DISTRIBUTION: Atlantic coast of North America from Nova Scotia to North Carolina.

**Genus *Tautogolabrus* Günther**

*Tautogolabrus* Günther, 1862: 89, 90 (type-species,



*Ctenolabrus burgall* Günther, by monotypy, proposed as a subgenus).

Two species; Atlantic. The genus needs revision.

***Tautogolabrus adpersus* (Walbaum)**

*Labrus burgall* Schöpf, 1788: 155 (New York).  
*Labrus adpersus* Walbaum, 1792: 254 (New York).  
*Tautoga caerulea* Mitchell, 1814: 24 (New York).  
*Labrus chogset* Mitchell, 1815: 402, pl. 3, fig. 2 (New York).  
*Labrus chogset* var. *fulva* Mitchell, 1815: 403 (New York).  
*Ctenolabrus uninotatus* Val., 1839: 239 (New York).

DISTRIBUTION: northwestern Atlantic from Newfoundland to Chesapeake Bay.

REMARKS: *Labrus burgall* is an available name (Eschmeyer, 1997) that has not been used since Günther (1862: 90). In Jordan's (1890) revision of the European and American Labridae the name *adpersus* was used.

***Tautogolabrus brandaonis* (Steindachner)**

*Ctenolabrus (Tautogolabrus) brandaonis* Steindachner, 1867a: 64 (Brazil).

DISTRIBUTION: Brazil.

**Genus *Terelabrus* Randall & Fourmanoir**

*Terelabrus* Randall & Fourmanoir, 1998:248 (type-species, *Terelabrus rubrovittatus* Randall & Fourmanoir, by original designation).

One species.

***Terelabrus rubrovittatus* Randall & Fourmanoir**

*Terelabrus rubrovittatus* Randall & Fourmanoir, 1998: 249, fig. 1 (Bulari Pass, New Caledonia).

DISTRIBUTION: Western Pacific: New Caledonia, Papua New Guinea, Bali and Palau.

**Genus *Thalassoma* Swainson**

*Thalassoma* Swainson, 1839: 172, 224 (type-species, *Scarus purpureus* Forsskal, by monotypy, proposed as a subgenus).

*Chlorichthys* Swainson, 1839: 173, 232 (type-species, *Labrus bifasciatus* Bloch, by subsequent designation, proposed as a subgenus).

*Bermudichthys* Nichols, 1920: 62 (type-species, *Bermudichthys subfurcatus* Nichols, by original designation).

*Pseudojulops* Fowler, 1941: 271 (type-species, *Pseudojulis trifasciatus* Weber, by original designation).

Twenty-six species (Gomon & Forsyth, 1990; Allen, 1995b; A. Brito pers. comm.). Indo-Pacific (17 species), Atlantic (5 species) and eastern Pacific (4

species). The genus was revised by Heiser (1981) in his unpublished dissertation.

***Thalassoma amblycephalum* (Bleeker)**

*Julis (Julis) amblycephalus* Bleeker, 1856d: 83 (Java).  
*Julis (Julis) melanoichir* Bleeker, 1857c: 77 (Indonesia).  
*Thalassoma melanoichir* Fowler, 1904: 537, pl. 20, middle fig. (Padang, Sumatra, Indonesia).  
*Pseudojulis trifasciatus* Weber, 1913: 380, fig. 76 (Tiur, Nusa Laut, Karkaralong Ids, Indonesia).  
*Thalassoma marnae* Schultz, 1943: 203, fig.17 (Hull Id, Phoenix Ids).

DISTRIBUTION: Indo-Pacific, South Africa to Japan, Australia and central Pacific.

***Thalassoma ascensionis* (Quoy & Gaimard)**

*Julis ascensionis* Quoy & Gaimard, 1834: 706, pl. 20, fig. 5 (Ascension Id).  
? *Julis newtoni* Osorio, 1891: 127 (São Tomé Id, Gulf of Guinea, West Africa).

DISTRIBUTION: Ascension Id and Canary Ids.

REMARKS: *Julis newtoni* Osorio may represent a valid species of *Thalassoma* (A. Brito, pers. comm.).

***Thalassoma ballieui* (Vaillant & Sauvage)**

*Julis ballieui* Vaillant & Sauvage, 1875: 284 (Hawaiian Ids).  
*Julis obscura* Günther, 1880: 61, pl. 26, figs. A-B (Honolulu, Oahu Id, Hawaiian Ids).  
*Julis verticalis* Smith & Swain, 1882: 135 (Johnston Id, central Pacific).

DISTRIBUTION: Hawaiian Ids and Johnston Id.

***Thalassoma bifasciatum* (Bloch)**

*Labrus bifasciatus* Bloch, 1791: 131, pl. 283 ("East Indies" [actually West Indies]).  
*Labrus torquatus* Walbaum, 1792: 245 (Antilles).  
*Labrus bifasciatus* var. *torquatus* Bloch & Schneider, 1801: 243 (Antilles).  
*Julis detorsor* Val., 1839: 408 (Santo Domingo and Martinique Id, West Indies).  
*Labrus ornatus* Gronow in Gray, 1854: 83 (Antilles and American Ocean; preoccupied by *Labrus ornatus* Carmichael, 1819 [= *Nelabrichthys ornatus*]).  
*Julis gillianus* Poey, 1860: 214 (Cuba).  
*Julis nitida* Günther, 1862: 190 (Jamaica).  
*Julis nitidissima* Goode, 1877: 293 (Bermuda).  
*Bermudichthys subfurcatus* Nichols, 1920: 62 (Bermuda).

DISTRIBUTION: Bermuda, North Carolina, Florida, Gulf of Mexico, West Indies and Caribbean to Venezuela.

REMARKS: *Labrus torquatus* Walbaum is a new synonym.

***Thalassoma cupido* (Temminck & Schlegel)**



*Julis cupido* Temminck & Schlegel, 1845: 170, pl. 86 bis, fig. 3 (Nagasaki, Japan).

DISTRIBUTION: Japan, Korea, and Taiwan.

***Thalassoma duperrey* (Quoy & Gaimard)**

*Julis duperrey* Quoy & Gaimard, 1824: 268, pl. 56, fig. 2 (Hawaiian Ids).

*Julis caeruleocephalus* Cuvier, 1829: 259 (no locality).

*Julis clepsydralis* Smith & Swain, 1882: 136 (Johnston Id).

*Thalassoma pyrrhovinctum* Jenkins, 1901: 51, fig. 7 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids and Johnston Id.

***Thalassoma genivittatum* (Valenciennes)**

*Julis genivittatus* Val., 1839: 416 (Mauritius, Madagascar).

*Julis commersoni* Val., 1839: 418 (Mauritius, Madagascar).

*Julis matthoei* Val., 1839: 419 (Mauritius).

*Julis bicolor* Günther, 1862: 184 (no locality [Mauritius]).

*Thalassoma mascarenum* Fricke, 1999: 437, figs 6A, 7A (Réunion).

DISTRIBUTION: Mauritius and South Africa.

REMARKS: Bauchot (1963: 61) stated that Smith (1957a) was in error to identify *Julis matthoei* as *Xiphocheilus gymnogenys* Günther. We follow Heiser (1981) in regarding *J. matthoei* as an aberrant *T. genivittatum*. *T. mascarenum* is a synonym according to Randall and Smith (ms. in preparation).

***Thalassoma grammaticum* Gilbert**

*Thalassoma grammaticum* Gilbert, 1890: 68 (Socorro and Clarion Ids, Revillagigedo Ids, off western Mexico).

DISTRIBUTION: Gulf of California to Panama and Galápagos Ids.

REMARKS: Randall (1995b) showed that *Thalassoma grammaticum* is the correct name for the eastern Pacific labrid fish misidentified as *Thalassoma lutescens* (Lay & Bennett) by recent authors.

***Thalassoma hardwicke* (Bennett)**

*Labrus quindecimaculeatus* Lacepède, 1801: 432, 480, pl. 25, fig. 1 (Gulf of India, *nomen dubium*).

*Sparus hardwicke* Bennett [J.W.], 1830: pl. 12 (Sri Lanka).

*Julis dorsalis* Quoy & Gaimard, 1834: 713, pl. 15, fig. 5 (Mauritius).

*Julis semifasciatus* Val., 1839: 448 (Mauritius).

*Julis prostigma* Kuhl & van Hasselt in Cuvier & Valenciennes, 1839: 451 (Java, Indonesia).

*Labrus pulcherrimus* Forster in Cuvier & Valenciennes, 1839: 451 (Tahiti, Society Ids).

?*Julis erythropterus* Val., 1839: 464 (no locality).

*Julis (Julis) urostigma* Bleeker, 1853c: 287 (Cauer, Sumatra, Indonesia).

*Julis (Julis) schwanefeldii* Bleeker, 1853c: 288 [later spelled *schwanefeldii* by Bleeker] (Cauer, Sumatra).

*Halichoeres iris* Seale, 1910: 522 (Jolo Id, Philippines).

DISTRIBUTION: Indo-Pacific, South Africa to Tahiti.

REMARKS: *Sparus hardwickii* Bennett, 1841 and *Thalassoma hardwickii* of later authors are incorrect spellings (Eschmeyer & Pethiyagoda, 1996). See Bauchot (1963: 89) for discussion of *Labrus quindecimaculeatus* Lacepède.

***Thalassoma hebraicum* (Lacepède)**

*Labrus hebraicus* Lacepède, 1801: 454, 526, pl. 29, fig. 3 (Mauritius).

*Julis cingulata* Quoy & Gaimard, 1834: 711, pl. 15, fig. 3 (Mauritius).

*Julis blochii* Val., 1839: 422 (no locality).

DISTRIBUTION: western Indian Ocean.

REMARKS: *Julis blochii* is based on *Labrus lunaris* Bloch (1791: pl. 281) and the specimen labeled by Cuvier and Valenciennes at the MNHN is *Thalassoma hebraicum* Lacepède (Bauchot, 1963: 76).

***Thalassoma heiseri* Randall & Edwards**

*Thalassoma heiseri* Randall & Edwards, 1984: 15, fig. 1B, 3 (Pitcairn Id, southern Pacific).

DISTRIBUTION: Pitcairn Group and Tuamotu Archipelago.

***Thalassoma janssenii* (Bleeker)**

*Julis (Julis) janssenii* Bleeker, 1856b: 56 (Indonesia).

DISTRIBUTION: Maldives to Micronesia and Fiji.

***Thalassoma loxum* Randall & Mee**

*Thalassoma loxum* Randall & Mee, 1994: 303, pls. 1-5 (South coast, Hoone's Bay, Oman, Arabian Sea).

DISTRIBUTION: southern Oman to Gulf of Oman.

***Thalassoma lucasanum* (Gill)**

*Julis lucasanus* Gill, 1862: 142 (Cape San Lucas, Baja California, Mexico).

*Thalassoma steindachneri* Jordan, 1890: 654 (Acapulco, Mexico).

*Thalassoma caeruleomarginata* Fowler, 1944a: 265, fig. 233 (Perlas Ids, Panama, eastern Pacific).

DISTRIBUTION: Baja California to Panama and Galápagos.

***Thalassoma lunare* (Linnaeus)**

*Labrus lunaris* Linnaeus, 1758: 283 (India).

*Scarus gallus* Forsskål, 1775: 26 (Yemen, Red Sea).

*Labrus zeylanicus* Forster, 1781: 24 (Sri Lanka).

*Labrus viridis* Bloch 1791: 129, pl. 282 (Japan; preoccupied by *Labrus viridis* Linnaeus, 1758).

?*Labrus polyodon* Walbaum 1792: 250 (no locality).



?*Labrus polyodon* Bloch & Schneider 1801: 263 (no locality; preoccupied by *Labrus polyodon* Walbaum).  
*Trichopus arabicus* Shaw, 1803: 390 (Arabian Sea).  
*Julis maculata* Lesson, 1828: 402 (Caroline Ids).  
*Julis porphyrocephala* Bennett, 1832b: 183 (Sri Lanka).  
*Julim [sic] lutescentem* Bennett, 1832b: 184 (Sri Lanka).  
*Julis hardwickii* Gray, 1832: pl. 92, fig. 1 (no locality).  
*Julis trimaculatus* Rüppell, 1835: 13 (Massawa, Eritrea, Red Sea; preoccupied by *Julis trimaculatus* Quoy & Gaimard, 1834 [= *Halichoeres trimaculatus*]).  
*?Chlorichthys grayii* Swainson, 1839: 232 (no locality).  
*Julis meniscus* Val., 1839: 415 (Seychelles, India, Macao).  
*?Julis mertensii* Val., 1839: 421 (Ulea, Caroline Ids).  
*Julis (Julis) celebicus* Bleeker, 1855e: 313 (Indonesia).  
*Julis rapan* Montrouzier, 1857: 473 (Woodlark Id).  
*Julis gracilis* Steindachner, 1863b: 1190 (Java, Indonesia).  
*Julis truncatus* Cartier, 1874: 105 (Cebu, Philippines).  
*Julis ventralis* De Vis, 1885: 884 (Queensland, Australia).  
*?Julis cyanoventor* Saville-Kent, 1893: 296, pl. 16, fig. 14 (Rocky Id, Cape Flattery, Queensland, Australia).  
*Thalassoma cupido bipunctatum* Vasiliev, 1931: 349, pl. 10, fig. 11 (Galle, Sri Lanka).  
*Thalassoma herrei* Seale, 1935: 369, pl. 23, fig. 2 (Tulagi, Florida Id, Solomon Ids).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Persian Gulf, Japan, Australia and central Pacific.

REMARKS: *Labrus polyodon* Walbaum and *Labrus polyodon* Bloch are based on Seba (Thes. III n. 3 and n. 4, tab. 31) and might represent this species. Bleeker (1862f) listed *Julis hardwickii* Gray as a synonym. The first author and Jeff Johnson of the Queensland Museum determined that *Julis ventralis* De Vis is a synonym. *Thalassoma cupido bipunctatum* Vasiliev is a subadult of *T. lunare*. *Julis cyanoventor* Saville-Kent is a probable synonym (R.H. Kuiter, pers. comm.). *Chlorichthys grayii* Swainson appears to be a new name for *Julis hardwickii* Gray.

#### *Thalassoma lutescens* (Lay & Bennett)

?*Labrus semilunatus* Lacepede 1804: 205, 211 (Australia).  
*Julis lutescens* Lay & Bennett (ex Solander), 1839: 65, pl. 19, fig. 2 (Mauritius; Tahiti; Ryukyu Ids, Japan).  
*Julis aneitensis* Günther, 1862: 183 (northeastern coast of Australia; Norfolk Id; Vanuatu [New Hebrides]).  
*Julis melanoptera* Günther, 1862: 183 ([Sri Lanka]).  
*Thalassoma neanis* Jordan & Evermann in Jordan & Snyder, 1907: 214, pl. 12, fig. 2 (Honolulu, Oahu Id).  
*Thalassoma cranei* Herre, 1935: 412 (Tenibuli, Ysabel Id, Solomon Ids).  
*Julis whittmii* Günther, 1909: 291, pl. 148, fig. A (Raiatea, Society Ids).

DISTRIBUTION: central and eastern Pacific to Oman.

REMARKS: Information of the type of *Julis melanoptera* was provided by A.C. Gill (pers. comm.).

#### *Thalassoma noronhanum* (Boulenger)

*Julis noronhana* Boulenger, 1890: 483 (Fernando de Noronha, Brazil).

DISTRIBUTION: Fernando de Noronha Archipelago, Brazil, and coast of Brazil.

#### *Thalassoma pavo* (Linnaeus)

*Labrus pavo* Linnaeus, 1758: 283 (Mediterranean, Syria).  
*Labrus syriacus* Bloch & Schneider, 1801: 244 (Syria).  
*?Labrus donzella* Rafinesque 1810a: 39 (Sicily, Italy).  
*?Labrus imperialis* Rafinesque 1810a: 40 (Sicily).  
*Labrus leo* Rafinesque, 1810a: 37 (Sicily, Italy).  
*Julis squamismarginatus* Bowdich, 1825: 234, fig. 53 (Gambia river, West Africa).  
*Julis turcica* Risso, 1827: 312, pl. 9, fig. 21 (Nice, France).  
*Julis unimaculata* Lowe, 1840: 37 (Madeira).  
*Julis unimaculata* var. *lineolata* Lowe, 1840: 37 (Madeira).  
*Julis unimaculata* var. *taeniata* Lowe, 1840: 37 (Madeira).  
*Julis turcica* var. *iemniscata* Lowe, 1843: 1 (Madeira).  
*Julis turcica* var. *torquata* Lowe, 1843: 1, pl. 1 (Madeira).  
*Julis vulgaris* Valenciennes, 1843: 65 (Canary Ids; preoccupied by *Julis vulgaris* Fleming 1828 [= *Coris julis* Linnaeus]) and *Julis vulgaris* Valenciennes, 1839 [= *Coris julis* Linnaeus]).

DISTRIBUTION: Mediterranean and eastern Atlantic from Portugal to Cape Lopez, Gabon, including Azores, Madeira, and Canary Ids.

REMARKS: synonymy from Gomon and Forsyth (1990). Cocco (Facciola, 1885) recognized *Labrus donzella* Rafinesque as a synonym.

#### *Thalassoma purpureum* (Forsskal)

*Scarus purpureus* Forsskal, 1775: 27 (Jeddah, Red Sea).  
*Scarus purpuratus* Shaw, 1803: 397 (Arabian Seas; unjustified emendation for *Scarus purpureus* Forsskal).  
*Julis quadricolor* Lesson, 1828: 400 (Tahiti, Matavai and Borabora).  
*Scarus georgii* Bennett [J.W.], 1830: pl. 24 (Sri Lanka).  
*Scarus georgiiquarti* Bennett [J.W.], 1841: pl. 24 (Sri Lanka).  
*Julis semicoeruleus* Rüppell, 1835: 10, pl. 3, fig. 1 (Jidda [Jeddah], Saudi Arabia, Red Sea).  
*Julis umbrostigma* Rüppell, 1835: 11, pl. 3, fig. 2 (Mohila and Jidda [Jeddah], Saudi Arabia, Red Sea).  
*Julis aereginosus* Val., 1839: 441 (Mauritius).  
*Julis cyanogaster* Val. (ex Solander) in Cuv. & Val., 1839: 444 (Tahiti, Society Ids).  
*Julis erythrogaster* Val. (ex Solander) in Cuv. & Val., 1839: 447 (Ulea, Caroline Ids).  
*Thalassoma immanis* Fowler, 1900: 488, pl. 18, fig. 2 (Caroline (Thornton) Id, [Line Ids, not Caroline Ids]).  
*Thalassoma berendti* Seale, 1901b: 15, fig. 7 (Honolulu, Hawaiian Ids).  
*Julis punctatus* Seale, 1901a: 91 (Guam, Mariana Ids).

DISTRIBUTION: Indo-Pacific: Red Sea to South Africa, Sri Lanka, Japan, Australia, Hawaiian Ids and Easter Id.

#### *Thalassoma quinquevittatum* (Lay & Bennett)

*Julis coris* Lesson, 1828: 404 (Caroline Ids).



*Scarus quinquevittatus* Lay & Bennett, 1839: 66, pl. 19, fig. 3 (Ryukyu Ids, Japan).

*Julis guentheri* Bleeker, 1862b: 279 (Sulawesi, Indonesia).

*Thalassoma albolineum* Nichols, 1941: 1, fig. 6 (Bali, Indonesia).

DISTRIBUTION: South Africa and Western Indian Ocean to central Pacific including Hawaiian Ids.

REMARKS: *Julis coris* Lesson is an earlier name for *Thalassoma quinquevittatum*. Although there is no type specimen, Lesson's description is sufficient to identify it as the species long known as *T. quinquevittatum*. Valenciennes (1839) used *Julis coris* for *Coris aygula* Lacepède. Randall and Parenti (1999) included *J. coris* Lesson among the old labrid names that should be suppressed in order to conserve names long accepted as valid.

#### *Thalassoma robertsoni* Allen

*Thalassoma* sp. Allen & Robertson, 1994: 207.

*Thalassoma robertsoni* Allen, 1995b: 75, figs. 1-2 (Clipperton Id, 10°18'N, 109°13'W).

DISTRIBUTION: Clipperton Id (eastern Pacific).

#### *Thalassoma rueppellii* (Klunzinger)

*Julis purpureus* (nec Forsskål) Rüppell, 1828: 25 (Red Sea, misidentification).

*Julis rueppellii* Klunzinger, 1871: 536 (Egypt, Red Sea).

*Thalassoma klunzingeri* Fowler & Steinitz, 1956: 278, fig. 24 (Eilat, Israel, Gulf of Aqaba).

DISTRIBUTION: Red Sea.

#### *Thalassoma sanctaehelenae* (Valenciennes)

*Julis sanctaehelenae* Val., 1839: 382 (St. Helena Id).

*Julis lessonii* Val., 1839: 384 (St. Helena Id).

DISTRIBUTION: St. Helena Id, South Atlantic.

#### *Thalassoma septemfasciatum* Scott

*Thalassoma septemfasciata* Scott, 1959: 84, fig. 4 (Shark Bay, Western Australia).

DISTRIBUTION: western Australia.

#### *Thalassoma trilobatum* (Lacepède)

*Labrus trilobatus* Lacepède, 1801: 454, 526, pl. 4, fig. 3 (Indo-Pacific Ocean).

*Labrus fuscus* Lacepède, 1801: 437, 493 (Mauritius; preoccupied by *Labrus fuscus* Gmelin, 1789 and *Labrus fuscus* Walbaum, 1792 [= *Symphodus mediterraneus* (Linnaeus, 1758)]).

*Sparus hemisphaericus* Shaw, 1803: 454 (Indian Seas).

*Sparus brachiatus* Shaw, 1803: 456 (Indian Seas).

*Julis bicatenatus* Bennett, 1832a: 167 (Mauritius).

*Julis formosus* Val., 1839: 439 (Mauritius).

*Julis souleyetii* Val., 1839: 457 (Mauritius, Hawaiian Ids).

*Julis abhortani* Val., 1839: 459 (Mauritius).

*Julis aran* Montrouzier, 1856: 474 (Woodlark Id).

DISTRIBUTION: Indo-Pacific, South Africa to central Pacific, including Hawaiian Ids and Pitcairn Group.

REMARKS: *Sparus hemisphaericus* Shaw and *Sparus brachiatus* Shaw were reported as synonyms of *Labrus fuscus* Lacepède by Swain (1883: 305).

#### *Thalassoma virens* Gilbert

*Thalassoma virens* Gilbert, 1890: 68 (Socorro Id, Revilla Gigedo [Revillagigedo] Ids, off western Mexico).

*Thalassoma socorroense* Gilbert, 1890: 69 (Socorro Id).

DISTRIBUTION: Revillagigedo Ids and Clipperton Id.

#### Genus *Wetmorella* Fowler & Bean

*Wetmorella* Fowler & Bean, 1928: 211 (type-species, *Wetmorella philippina* Fowler & Bean, by original designation).

Two species (Randall, 1983a). Indo-Pacific.

#### *Wetmorella albobfasciata* Schultz & Marshall

*Wetmorella albobfasciata* Schultz & Marshall, 1954: 446, pl. 12 (Mabul Id, Philippines).

*Wetmorella philippina*, in part, Fowler & Bean, 1928: 211, pl. 17 (Little Santa Cruz, Zamboanga, Philippines).

DISTRIBUTION: Indo-Pacific, including Hawaiian Ids.

#### *Wetmorella nigropinnata* (Seale)

*Cheilinus nigropinnatus* Seale, 1901a: 86 (Guam).

*Wetmorella philippina* (in part) Fowler & Bean, 1928: 211 (Little Santa Cruz, Zamboanga, Philippines).

*Wetmorella philippina bifasciata* Schultz & Marshall, 1954: 441, pl. 12, figs. A-B; fig. 53 (Suakin, Sudan).

*Wetmorella ocellata* Schultz & Marshall, 1954: 444, pl. 12, figs. D-E (Rongelap Atoll, Marshall Ids).

*Wetmorella triocellata* Schultz & Marshall, 1954: 447, fig. 54 (Rapurapu Id, Philippines).

DISTRIBUTION: Indo-Pacific, including Red Sea.

#### Genus *Xenajulis* de Beaufort

*Xenajulis* de Beaufort, 1939: 415 (type-species *Xenajulis montillai* de Beaufort, by original designation).

One species.

#### *Xenajulis margaritaceus* (Macleay)

*PlatyGLOSSUS margaritaceus* Macleay, 1883b: 274 (Hood Bay, Port Moresby, Papua New Guinea).

*Halichoeres macleayi* Jordan & Seale, 1906: 303 (unnecessary replacement for *PlatyGLOSSUS margaritaceus* Macleay,



thought to be preoccupied by *Julis margaritaceus* Valenciennes when both in *Halichoeres*).

*Xenojulis montillai* de Beaufort, 1939: 417, fig. 3 (Balawan, La Union Province, Luzon Id, Philippines).  
*Halichoeres sexmaculatus* Fowler, 1946: 166, fig. 34 (Aguni Shima, Ryukyu Ids, Japan).

DISTRIBUTION: Ryukyu Ids, Philippines, New Guinea, and western Australia.

### Genus *Xiphocheilus* Bleeker

*Xiphocheilus* Bleeker, 1856e: 223 (type-species, *Xiphocheilus typus* Bleeker, by monotypy)  
*Xiphochilus* Günther, 1862:98 (unjustified emendation).

One species (Gomon, 1997).

### *Xiphocheilus quadrimaculatus* (Günther)

*Xiphochilus quadrimaculatus* Günther, 1880: 45, pl. 20, fig. C (Arafura Sea).  
*Xiphocheilos typus* Bleeker, 1856e: 224 (Nias, Indonesia).

DISTRIBUTION: India, Indonesia, northwestern Australia, South China Sea, New Caledonia.

### Genus *Xyrichtys* Cuvier

*Xyrichtys* Cuvier, 1814: 87 (type-species, *Coryphaena novacula* Linnaeus, by subsequent designation).  
*Novacula* Cuvier, 1815a: 324 (type-species, *Coryphaena novacula* Linnaeus, by monotypy and by absolute tautonymy).  
*Xirichthys* Cuvier, 1829: 262 (*Xyrichtys* of later authors)  
*Amorphocephalus* Bowdich, 1825: xii, 238 (type-species, *Amorphocephalus granulatus* Bowdich, by monotypy).  
*Iniistius* Gill, 1862: 143 (type-species, *Xyrichtys pavo* Valenciennes, by original designation).  
*Xyrula* Jordan, 1890: 656 (type-species, *Xyrichtys jessiae* Jordan, by original designation).  
*Duohemipteronotus* Fowler, 1956: 281 (type-species, *Hemipteronotus evides* Jordan & Richardson, by original designation, proposed as a subgenus).

REMARKS: Randall and Bauchot (1993) showed that the use of *Hemipteronotus* Lacepède for species of *Xyrichtys* is incorrect, as Lacepède's name was intended for the pilotfish (*Naucratus ductor*). They proposed that *Hemipteronotus* be suppressed, and it was placed on the Official Index of Rejected and Invalid Generic Names in Zoology (Opinion, 1799). The genus is in need of revision to determine the identity of some Indo-Pacific species; Randall (1965a) reviewed the Western Atlantic species; 28 species are provisionally listed here (including 1 undescribed species). Some 22 species (including 4 species endemic to the Eastern Pacific) are Indo-Pacific; 6 species are known from the Atlantic.

### *Xyrichtys aneitensis* (Günther)

*Novacula aneitensis* Günther, 1862: 176 (Aneiteum

[Aneiteum] Id, Vanuatu [New Hebrides]).  
*Hemipteronotus liogenys* Fowler, 1904: 539, pl. 20, lower fig. (Padang, Sumatra, Indonesia).

DISTRIBUTION: Indo-Pacific, Maldives to Samoa.

### *Xyrichtys baldwini* (Jordan & Evermann)

*Hemipteronotus baldwini* Jordan & Evermann, 1903: 192 (Honolulu, Oahu Id, Hawaiian Ids).  
*Hemipteronotus jenkinsi* Snyder, 1904: 530, pl 10, fig. 19 (Puako Bay, Hawaii Id, Hawaiian Ids).  
*Hemipteronotus evides* Jordan & Richardson, 1909: 196, pl. 72 (Kao-Hsiung, Taiwan).  
*Hemipteronotus maculosus* Fourmanoir, 1967: 268, fig. 2 (Vietnam).

DISTRIBUTION: Hawaiian Ids and Viet Nam.

REMARKS: *Hemipteronotus maculosus* is a new synonym.

### *Xyrichtys bimaculatus* Rüppell

*Xyrichtys bimaculatus* Rüppell, 1829: 43, pl. 10 (Bay of Massawa, Eritrea, Red Sea).  
*Novacula punctulata* Val., 1840: 73 (Bombay, India).  
*Hemipteronotus hyospilus* Schultz in Schultz et al., 1960: 150, fig. 97 (Makassar, Sulawesi [Celebes], Indonesia).

DISTRIBUTION: Red Sea, Persian Gulf, India, and Indonesia.  
REMARKS: synonymy from Randell (1981b).

### *Xyrichtys blanchardi* (Cadenat & Marchal)

*Novaculichthys blanchardi* Cadenat & Marchal, 1963: 1293, fig. 42 (Ascension Id).

DISTRIBUTION: Ascension and St. Helena, South Atlantic.  
REMARKS: Reported from St. Helena by Edwards and Glass (1987).

### *Xyrichtys celebicus* (Bleeker)

*Novacula celebica* Bleeker, 1856b: 61 (Indonesia).  
*Xyrichtys* sp. 2 Shen & Yeh, 1987: 65, figs. 13-14 (Taiwan).

DISTRIBUTION: East Indies, Taiwan, to Marshall Ids.

### *Xyrichtys cyanifrons* Valenciennes

*Xyrichtys cyanifrons* Val., 1840: 46 (Pondicherry, India).  
*Novacula rufa* Day, 1873: 238 (Madras, India).

DISTRIBUTION: Pondichéry, southern India.

### *Xyrichtys dea* Temminck & Schlegel

*Xirichthys dea* Temminck & Schlegel, 1845: 171, pl. 87 (Japan).  
*Xyrichtys margaritatus* Fourmanoir, 1967: 267, fig. 1 (Vietnam).



DISTRIBUTION: Japan, China, Viet Nam, Indonesia and Australia.

***Xyrichtys geisha* Araga & Yoshino**

*Hemipteronotus* sp. 2 Masuda et al., 1975: 306, pl. 111 I.  
*Xyrichtys geisha* Araga & Yoshino, 1986: 75, fig. 1 (outer margin of Okinawa Trough, Japan, depth ca. 100 m).

DISTRIBUTION: Japan.

***Xyrichtys incandescens* Edwards & Lubbock**

*Xyrichtys incandescens* Edwards & Lubbock, 1981: 233, fig. 1 (Fernando de Noronha Archipelago, Brazil).

DISTRIBUTION: Fernando de Noronha Archipelago, Brazil.

***Xyrichtys jacksonensis* (Ramsay)**

*Novacula jacksonensis* Ramsay, 1881: 198 (Manly Beach, Port Jackson, New South Wales, Australia).

DISTRIBUTION: Australia and Lord Howe Id..

***Xyrichtys javanicus* (Bleeker)**

*Novacula javanica* Bleeker, 1862b: 305 (Java, Indonesia).

DISTRIBUTION: Red Sea and Indonesia.

***Xyrichtys martinicensis* Valenciennes**

*Xyrichtys martinicensis* Val., 1840: 49 (Martinique Id).  
*Xyrichtys lineatus* Val., 1840: 50 (Martinique Id).  
*Xyrichtys modestus* Poey, 1867: 238 (Havana, Cuba).  
*Xyrichtys venustus* Poey, 1876: 152 (Martinique Id).  
*Xyrichtys infirmus* Bean, 1891: 199, pl. 29, fig. 2 (Cozumel, Yucatán, Mexico).  
*Xyrichtys niveilatus* Jordan & Evermann, 1903: 194 (Cozumel, Yucatán, Mexico).

DISTRIBUTION: Bermuda, Florida, West Indies, Caribbean, Yucatan to Venezuela.

REMARKS: synonymy from Randall (1965a).

***Xyrichtys melanopus* (Bleeker)**

*Novacula melanopus* Bleeker, 1857c: 82 (Ambon Id, Moluccas Ids, Indonesia).  
*Novacula spilonotus* Bleeker, 1857c: 83 (Ambon Id).

DISTRIBUTION: Red Sea and western Pacific.

***Xyrichtys mundiceps* Gill**

*Xyrichtys mundiceps* Gill, 1862: 143 (Baja California).

DISTRIBUTION: Baja California, Mexico.

***Xyrichtys niger* (Steindachner)**

*Novacula (Iniistius) nigra* Steindachner, 1900: 176 (Honolulu, Oahu Id, Hawaiian Ids).

*Iniistius verater* Jenkins, 1901: 55, fig. 12 (Honolulu).

DISTRIBUTION: Red Sea and Hawaiian Ids.

REMARKS: a probable synonym of *Xyrichtys pavo* Valenciennes (Randall & Earle, MS).

***Xyrichtys novacula* (Linnaeus)**

*Coryphaena novacula* Linnaeus, 1758: 262 (Mediterranean).

*Coryphaena psittacus* Linnaeus, 1766: 448 (Carolina, U.S.A.).

*Coryphaena lineata* Gmelin, 1789: 1195 (Charleston, South Carolina, U.S.A.).

*Coryphaena lineolata* Rafinesque, 1810a: 33 (Sicily, Italy).

*Novacula coryphaenoides* Schinz in Cuvier, 1822: 430 *nomen novum* for *Coryphaena novacula* Linnaeus.

*Amorphocephalus granulatus* Bowdich, 1825: 238, fig. 36 (Bona Vista, Madeira).

*Novacula coryphena* Risso, 1827: 334 (Mediterranean; substitute name for *Coryphaena novacula* Linnaeus).

*Xyrichtys uniocellatus* Agassiz in Spix & Agassiz, 1829: 97, pl. 55 (Brazil).

*Xyrichtys cultratus* Val., 1840: 37, pl. 391 (Martigues, Montpellier, Ivica, Seide).

*Xyrichtys vitta* Val., 1840: 51 (no locality).

*Xyrichtys vermiculatus* Poey, 1860: 215 (Havana, Cuba).

*Xyrichtys argentimaculata* Steindachner, 1861: 134 (Cape of Good Hope, South Africa; [locality dubious]).

*Xyrichtys rosipes* Jordan & Gilbert, 1884: 27 (Key West, Florida, U.S.A.).

*Xyrichtys jessiae* Jordan, 1888: 698 (off Tampa Bay, Florida, U.S.A.).

*Hemipteronotus copei* Fowler, 1901: 508, pl. 20, fig. 1 ("Oahu, Hawaiian Ids" [locality questionable]).

*Xyrichtys binghami* Mowbray, 1925: 1, fig. 1 (Double-headed Shot Cat, Cay Sal Bank, Bahamas).

DISTRIBUTION: Western Atlantic: Bermuda, North Carolina to Brazil, including Gulf of Mexico, West Indies and Caribbean. Mediterranean and Eastern Atlantic from Spain to Gulf of Guinea, including Madeira and Canary Ids.

REMARKS: synonymy from Randall (1965a) and Gomon and Forsyth (1990). The status of *Novacula coryphaenoides* is discussed by Daget (1968).

***Xyrichtys pavo* (Valenciennes)**

*Xyrichtys pavo* Val., 1840: 61, pl. 394 (Mauritius).

*Xyrichtys pavoninus* Val., 1840: 63 (Hawaiian Ids).

*Novacula tessellata* Val., 1840: 74 (Mauritius).

*Novacula immaculata* Val., 1840: 75 (Mauritius).

*Xyrichtys puniceus* Richardson, 1846b: 261 (China).

*Novacula tetrazona* Bleeker, 1859a: 169 (Bali, Indonesia).

*Iniistius mundicorpus* Gill, 1862: 145 (Baja California).

*Novacula (Xyrichtys) carneoflava* Peters, 1877: 843 (Dana Id).

*Iniistius cacatua* Waite, 1901: 41, pl. 7 (Lord Howe Id).

*Iniistius leucozonus* Jenkins, 1901: 54, fig. 11 (Honolulu).



*Novacula temporalis* Regan, 1905: 392, pl. 6, fig. 3 (Réunion).

*Xyrichtys panamensis* Fowler, 1944a: 267, fig. 234 (Perlas Ids, Panama, Eastern Pacific).

DISTRIBUTION: Indo-Pacific, Red Sea to eastern Pacific.

REMARKS: *Iniistius leucozonus* Jenkins is a new synonym.

***Xyrichtys pentadactylus* (Linnaeus)**

*Coryphaena pentadactyla* Linnaeus, 1758: 261 (India).

*Xirichthys cyanoirostris* Guerin-Meneville 1829-38: 27, pl. 43, fig. 3 (Pondicherry, India).

*Novacula sexmaculata* Val., 1840: 72 (Bombay, India).

DISTRIBUTION: Red Sea to western Pacific.

REMARKS: *Coryphaena pentadactyla* was redescribed by Valenciennes (1840: 69) as *Novacula pentadactyla*. *Xirichthys cyanoirostris* Guerin-Meneville and *Novacula sexmaculata* Valenciennes are synonyms according to Bleeker (1862f) and Bauchot (1963), respectively.

***Xyrichtys rajagopalani***

Venkataramanujam, Venkataramani & Ramanathan

*Xyrichtys rajagopalani* Venkataramanujam, Venkataramani & Ramanathan, 1987: 47, fig. 1 (Tamil Nadu, India).

DISTRIBUTION: southern India.

***Xyrichtys sanctaehelenae* (Günther)**

*Novacula sanctaehelenae* Günther, 1868: 228 (St. Helena).

DISTRIBUTION: St. Helena and Ascension Id.

***Xyrichtys splendens* Castelnau**

*Xyrichtys splendens* Castelnau, 1855: 28, pl. 5, fig. 2 (Bahia, Brazil).

*Xyrichtys ventralis* Bean, 1891: 198, pl. 29, fig. 1 (Cozumel, Yucatán, Mexico).

DISTRIBUTION: Bermuda, Florida, Yucatán, Caribbean and West Indies to Brazil.

***Xyrichtys trivittatus* Randall & Cornish**

*Xyrichtys* sp. 1 Shen & Yeh, 1987: 64, fig. 12 (Taiwan).

*Xyrichtys pavo* (nec Valenciennes): Shen, 1997: 469, pl. 156, fig. 5 (same photo used by Shen & Yeh (1987)).

*Xyrichtys trivittatus* Randall & Cornish, 2000: 19, fig. 1 (Hong Kong).

DISTRIBUTION: Hong Kong and Taiwan.

***Xyrichtys twistii* (Bleeker)**

*Novacula twistii* Bleeker, 1856c: 381 (Indonesia).

?*Novacula stockumii* Reuven, 1895: 131 (Indonesia).

*Hemipteronotus nigromaculatus* Herre, 1933: 20 (Jolo, Sulu Archipelago, Philippines).

*Hemipteronotus* sp. 1 Masuda et al., 1975: 305, pl. 111 C.

DISTRIBUTION: Japan, Indonesia.

***Xyrichtys umbrilatus* (Jenkins)**

*Hemipteronotus umbrilatus* Jenkins, 1901: 53, fig. 10 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

***Xyrichtys verrens* (Jordan & Evermann)**

*Hemipteronotus verrens* Jordan & Evermann, 1902: 354, fig. 22 (Keelun, Taiwan).

*Hemipteronotus caeruleopunctatus* Yu, 1968: 129, fig. 54 (Koahsiung, Taiwan).

DISTRIBUTION: Japan, Taiwan.

REMARKS: Synonymy from Shen and Yeh (1987).

***Xyrichtys victori* Wellington**

*Xyrichtys victori* Wellington, 1992: 1054, figs. 1-2 (Punta Espejo, Marchena Id, Galápagos Ids).

DISTRIBUTION: Galápagos Ids.

***Xyrichtys wellingtoni* Allen & Robertson**

*Xyrichtys wellingtoni* Allen & Robertson, 1995: 80, fig. 1 (Clipperton Id, 10°18'N, 109°13'W).

DISTRIBUTION: Clipperton Id, Central Pacific.

***Xyrichtys* sp 1**

DISTRIBUTION: Galápagos Ids.

REMARKS: This species is under study by B.C. Victor and G.M. Wellington.

**Family SCARIDAE Rafinesque, 1810a  
(Parrotfishes)**

The Family Scaridae (also known as the Callyodontidae) is represented in all shallow tropical seas. Most scarids (75%) occur in the Indo-Pacific Region. Some widely distributed tropical species (e.g. *Scarus ghobban*) may be found in subtropical waters, and one species (*Sparisoma cretense*) enters the temperate waters of the Eastern Atlantic and Mediterranean Sea.

Characters that define the Scaridae are as follows:  
Body oblong to moderately elongate, somewhat compressed. Mouth rather small, terminal, not protractile; teeth fused to form a pair of sharp-edged plates, resembling a parrot's beak, covered to a varying degree by lips; one or two small laterally projecting canine teeth may be present posteriorly on dental plates in adults. Pharyngeal dentition unique, the interlocking upper pharyngeal bone with 1-3 rows of molariform teeth on a convex surface which bears against the molar-studded concave surface of the single



lower pharyngeal bone. Dorsal fin continuous, with 9 spines and 10 soft rays, anal fin with 3 spines and 9 soft rays, caudal fin with 11 branched rays, and pelvic fin with one spine and 5 rays. Scales large, cycloid, with 22-24 in longitudinal series; those of lateral line with arborescent tubes; lateral line continuous or interrupted below rear of dorsal fin, usually with 18 scales in upper section and 6 scales in lower portion. Head naked, except for scales on cheek. Parrotfishes have a very long intestine and no true stomach, characters related to their herbivorous diet.

Generally found on coral reefs and rocky substrata with heavy algal cover, or seagrass beds. Parrotfishes feed mainly on seagrasses and algae (especially on dead coral substrates), but a few of the larger species feed in part on live coral. Sex reversal is associated with colour changes, as in the Labridae, and colour patterns of many species change greatly from juvenile to adult. Nevertheless, colour patterns of live fish are very important in classification.

## TAXONOMY

Usually two subfamilies, Sparinae and Sparisomatinae, have been recognized. However, according to recent phylogenetic analysis, this distinction appears no longer justified (Bellwood, 1994). Ten genera and 90 species, 2 of which are undescribed are recognized here. Bellwood (1994) revised the generic classification; Randall & Bruce (1983) reviewed western Indian Ocean species (Hoover, 1995 added another species from Oman); and Choat and Randall (1986) reviewed the parrotfishes of the Great Barrier Reef. Although we believe the oldest available names are correct for the species of Scaridae, there are many later names not yet confidently placed with the correct senior synonym. Some of these were imperfectly described, thus requiring examination of the holotypes. Even when holotypes are available, the loss of colour pattern in preserved specimens makes identification difficult. A revision of all Indo-Pacific species will still be a difficult task.

### Genus *Bolbometopon* Smith

*Bolbometopon* Smith, 1956b: 8 (type-species, *Scarus muricatus* Valenciennes, by original designation).

One species.

#### *Bolbometopon muricatum* (Valenciennes)

*Scarus muricatus* Val., 1840: 208 (Java, Indonesia).

*Callyodon shimoniensis* Smith, 1953: 622, pl. 15-16 (Shimoni, Kenya).

DISTRIBUTION: Indo-Pacific, Red Sea to Mozambique, Maldives, Samoa and Line Ids.

### Genus *Calotomus* Gilbert

*Calotomus* Gilbert, 1890: 70 (type-species, *Calotomus xenodon* Gilbert, by original designation).

*Scaridea* Jenkins, 1903: 468 (type-species, *Scaridea zonarcha* Jenkins, by original designation).

Genus revised by Bruce & Randall (1985); 4-5 species (see remarks under *C. viridescens*). Red Sea to South Africa, Japan, Australia and eastern Pacific.

#### *Calotomus carolinus* (Valenciennes)

*Callyodon carolinus* Val., 1840: 291 (Caroline Ids).

*Callyodon genistriatus* Val., 1840: 293 (no locality).

*Callyodon sandwicensis* Val., 1840: 295 (Hawaiian Ids).

*Callyodon brachysoma* Bleeker, 1861b: 244 (Indonesia).

*Calotomus xenodon* Gilbert, 1890: 70 (Socorro Id, Revillagigedo Ids, off western Mexico).

*Calotomus irradians* Jenkins, 1901: 58, fig. 15 (Honolulu).

*Calotomus snyderi* Jenkins, 1903: 467, fig. 25 (Honolulu).

*Scarichthys rarotongae* Seale, 1906: 59, fig. 8 (Cook Ids).

*Cryptotomus albimarginatus* Fourmanoir & Guézé, 1961: 19, fig. 6 (Réunion Id).

DISTRIBUTION: Indo-Pacific, South Africa to Oman, Hawaiian Ids, and eastern tropical Pacific.

REMARKS: *Calotomus carolinus* may be a synonym of *C. viridescens* (Rüppell) (Randall & Anderson, 1993).

#### *Calotomus japonicus* (Valenciennes)

*Callyodon japonicus* Val., 1840: 294, pl. 406 (Japan).

*Calotomus cyclurus* Jenkins, 1903: 465, fig. 24 ("Hawaiian Islands"; error for Japan (Bruce & Randall, 1985)).

DISTRIBUTION: Japan, Korea and Hawaiian Ids.

#### *Calotomus spinidens* (Quoy & Gaimard)

*Scarus spinidens* Quoy & Gaimard, 1824: 289 (Waigeo [Waigiou], Indonesia).

*Callyodon waigiensis* Val., 1840: 296 (unneeded replacement for *Scarus spinidens* Quoy & Gaimard).

*Callyodon hypselosoma* Bleeker, 1855c: 425 (Ambon Id, Moluccas Ids, Indonesia).

*Callyodon moluccensis* Bleeker, 1861b: 243 (Sulawesi [Celebes], Ternate, Batjan, Timor, Ambon, Ceram and Banda, Indonesia).

DISTRIBUTION: Indo-Pacific, South Africa, Chagos, Maldives, to Marshall Ids and Tonga.

#### *Calotomus viridescens* (Rüppell)

*Scarus (Callyodon) viridescens* Rüppell, 1835: 23, pl. 7, fig. 2 (Jidda [Jeddah], Saudi Arabia, Red Sea).

DISTRIBUTION: Red Sea, Chagos, Maldives; might be Indo-Pacific (see Remarks under *C. carolinus*).

#### *Calotomus zonarchus* (Jenkins)

*Scaridea zonarcha* Jenkins, 1903: 468, fig. 26 (Honolulu).

*Scaridea balia* Jenkins, 1903: 469, fig. 27 (Honolulu).

*Scaridea aerea* Jordan & Snyder, 1907: 215, fig. 4 (Honolulu, Oahu Id, Hawaiian Ids).

*Scaridea farrandi* Jordan [E.K.], 1925: 28, pl. 1, fig. 4 (Honolulu, Oahu Id, Hawaiian Ids).



DISTRIBUTION: Hawaiian Ids.

### Genus *Cetoscarus* Smith

*Cetoscarus* Smith, 1956b: 16 (type-species, *Scarus pulchellus* Rüppell, by original designation).

One species.

### *Cetoscarus bicolor* (Rüppell)

*Scarus bicolor* Rüppell, 1829: 82, pl. 21, fig. 3 (Jeddah).

*Scarus pulchellus* Rüppell, 1835: 25, pl. 8, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Scarus ocellatus* Val., 1840: 278 (Caroline Ids).

*Scarus roseiceps* Val., 1840: 279 (Ulea, Caroline Ids).

*Callyodon scriptus* Gronow in Gray, 1854: 85 (Indian Ocean).

*Pseudoscarus nigripinnis* Playfair & Günther, 1867: 105, pl. 15, fig. 2 (Zanzibar).

*Scarus ophthalmistius* Herre, 1933: 21 (Philippines).

DISTRIBUTION: Indo-Pacific, Red Sea to Chagos, Maldives, and Caroline Ids.

### Genus *Chlorurus* Swainson

*Chlorurus* Swainson, 1839: (173) 227 (type-species, *Scarus gibbus* Rüppell, by monotypy, proposed as a subgenus).

*Pseudoscarus* Bleeker, 1861b: 230 (type-species, *Scarus microrhinos* Bleeker, by subsequent designation).

*Xanothos* Smith, 1956b: 4 (type-species, *Callyodon bipallidus* Smith, by original designation).

*Ypsiscarus* Schultz, 1958: 33, 47 (type-species, *Callyodon oedema* Snyder, by original designation; proposed as a subgenus).

A valid genus (Bellwood, 1994); 17 species; Indo-Pacific.

### *Chlorurus atrilunula* (Randall & Bruce)

*Scarus atrilunula* Randall & Bruce, 1983: 9, pl. 4, figs. A-B (Shimoni, Kenya).

DISTRIBUTION: Known only from Kenya to South Africa.

### *Chlorurus bleekeri* (de Beaufort)

*Scarus quoyi* (nec Valenciennes) Bleeker, 1853e: 607 (Ternate, Moluccas, Indonesia).

?*Scarus cyanotaenia* Bleeker, 1854b: 197 (Jakarta).

*Callyodon bleekeri* de Beaufort, 1940: 318 (*nomen novum* for *Scarus quoyi* Bleeker).

DISTRIBUTION: Northwestern Australia to Fiji.

REMARKS: *Scarus cyanotaenia* Bleeker, 1854b is an initial phase of *Chlorurus*, most likely *C. bleekeri*.

### *Chlorurus bowersi* (Snyder)

*Callyodon bowersi* Snyder, 1909: 602 (Okinawa, Japan).

DISTRIBUTION: Ryukyus, Philippines, Java and Palau.

### *Chlorurus capistratoides* (Bleeker)

*Scarus capistratoides* Bleeker, 1847: 162 (Jakarta).

DISTRIBUTION: Indonesia to Maldives and Chagos Ids.

REMARKS: regarded as *Scarus japanensis* by Randall and Nelson (1979); corrected by Randall (1992b).

### *Chlorurus cyanescens* (Valenciennes)

*Scarus cyanescens* Val., 1840: 254 (Mauritius).

*Pseudoscarus chloromelas* Playfair & Günther, 1867: 109, pl. 15, fig. 1 (Zanzibar).

DISTRIBUTION: Zanzibar to South Africa, Madagascar and Mauritius.

### *Chlorurus enneacanthus* (Lacepède)

*Scarus enneacanthus* Lacepède, 1802: 2, 6 (Mauritius).

*Scarus capitaneus* Cuvier, 1829: 265 (Mauritius).

DISTRIBUTION: Mozambique, Mauritius, Chagos, Maldives.

### *Chlorurus frontalis* (Valenciennes)

*Scarus frontalis* Val., 1840: 280 (Strong Id, Caroline Ids).

*Pseudoscarus jonesi* Street, 1877: 80 (Palmyra Id, Hawaiian Ids).

*Scarus lupus* Fowler, 1900: 491, pl. 18, fig. 1 ("Caroline Id" [Thornton] Id [Line Ids.], South Pacific).

*Scarus brighami* Bryan & Herre, 1903: 131 (Marcus Id, west Pacific).

*Callyodon latax* Jordan & Seale, 1906: 329, pl. 49 (Apia, Upolu Id, Western Samoa).

DISTRIBUTION: Great Barrier Reef and islands of Oceania.

REMARKS: synonymy from Wass (1984), Choat and Randall (1986) and Randall in Böhlke (1984).

### *Chlorurus genazonatus* (Randall & Bruce)

*Scarus genazonatus* Randall & Bruce, 1983: 19, pl. 6, figs. E-F (Sinai Peninsula, Gulf of Aqaba, Red Sea).

DISTRIBUTION: Red Sea.

### *Chlorurus gibbus* (Rüppell)

*Scarus gibbus* Rüppell, 1829: 81, pl. 20, fig. 2 (Red Sea).

DISTRIBUTION: Red Sea.

### *Chlorurus japanensis* (Bloch)

*Scarus japanensis* Bloch, 1789: 244 (Japan or Java).

*Scarus viridis* Bloch, 1790: 29 (Japan or Java, Indonesia; preoccupied by *Scarus viridis* Bonnaterre 1788 [= *Sparisoma viride* (Bonnaterre, 1788)]).

*Scarus blochii* Val., 1840: 219 (*nomen novum* for *Scarus*



*viridis* Bloch 1790).

*Callyodon pyrrhurus* Jordan & Seale, 1906: 314, fig. 55 (Pago Pago, American Samoa).

*Callyodon abacurus* Jordan & Seale, 1906: 324, pl. 33 (Pago Pago, American Samoa).

*Callyodon philippinus* Fowler, 1918: 66, fig. 26 (Philippines).

DISTRIBUTION: western Pacific to Samoa.

REMARKS: synonymy from Randall and Nelson (1979); they erred however in listing *Scarus capistratoides* Bleeker as a junior synonym of *japanensis*.

#### ***Chlorurus microrhinos* (Bleeker)**

*Scarus microrhinos* Bleeker, 1854b: 200 (Indonesia).

*Callyodon ultramarinus* Jordan & Seale in Seale, 1906: 63, fig. 16 (Mangareva Id, Tuamotu Ids).

DISTRIBUTION: western and central Pacific.

REMARKS: Synonymized with *Scarus gibbus* by Choat and Randall (1986); corrected by Randall (1992b).

#### ***Chlorurus oedema* (Snyder)**

*Callyodon oedema* Snyder, 1909: 603 (Okinawa, Japan).

DISTRIBUTION: Japan to Indonesia.

#### ***Chlorurus perspicillatus* (Steindachner)**

*Scarus perspicillatus* Steindachner, 1879: 32 (Hawaiian Ids).

*Scarus ahula* Jenkins, 1901: 61, fig. 19 (Honolulu).

*Scarus miniatus* Jenkins, 1901: 62, fig. 20 (Honolulu).

*Scarus barborus* Jordan & Evermann, 1903: 197 (Honolulu, Oahu Id, Hawaiian Ids).

*Callyodon borborus* Jordan & Evermann, 1905: 349, fig. 150 (unjustified emendation of *Scarus barborus*).

*Scarus kraussi* Jordan [E.K.], 1925: 30, pl. 2, fig. 1 (Honolulu, Oahu Id, Hawaiian Ids).

*Scarus leucostigma* Jordan, Evermann & Tanaka, 1927: 676, pl. 24, fig. 2 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Islands.

#### ***Chlorurus rhakoura* Randall & Anderson**

*Chlorurus* sp. Anderson, 1996: 60.

*Chlorurus rhakoura* Randall & Anderson, 1997: 157 (off Trincomalee, Sri Lanka).

DISTRIBUTION: Sri Lanka.

#### ***Chlorurus sordidus* (Forsskal)**

*Scarus sordidus* Forsskal, 1775: 30 (Red Sea).

*Scarus nigricans* Val., 1840: 213 (Red Sea).

*Scarus erythron* Val., 1840: 255 (Mauritius).

*Scarus variegatus* Val., 1840: 256 (Mauritius).

*Scarus purpureus* Val., 1840: 277 (Ulea, Caroline Ids; preoccupied by *Scarus purpureus* Forsskal, 1775 [=

*Thalassoma purpureum* (Forsskal)]).

*Scarus spilurus* Val., 1840: 279 (Caroline Ids).

?*Scarus sumbawensis* Bleeker, 1848: 638 (Indonesia).

*Scarus gymnognathos* Bleeker, 1853d: 498 (Jakarta).

*Scarus celebicus* Bleeker, 1854e: 253 (Indonesia).

*Pseudoscarus margaritus* Cartier, 1874: 105 (Cebu, Philippines).

*Pseudoscarus goldiei* Macleay, 1883a: 590 (New Guinea).

*Pseudoscarus platodoni* Seale, 1901a: 96 (Guam).

*Callyodon cyanogrammus* Jordan & Seale, 1906: 330, fig. 63 (Apia, Upolu Id, Western Samoa).

*Pseudoscarus vitriolinus* Bryan, 1906: 27, fig. 4 (Honolulu, Oahu Id, Hawaiian Ids).

*Callyodon rostratus* Seale, 1910: 524 (Philippines).

*Callyodon albipunctatus* Seale, 1910: 526 (Philippines).

*Scaridea leucotaeniata* Fowler, 1944b: 180, fig. 35 (Vanuatu [New Hebrides]).

*Callyodon bipallidus* Smith, 1955: 936 (Mozambique).

*Xanodon bipallidus* Smith, 1956b: 5, pl. 41, fig. D (Pinda, Mozambique).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Maldives, Oman, Hawaiian Ids and Pitcairn Group.

REMARKS: *Scarus sumbawensis* Bleeker is an initial phase of *Chlorurus*, possibly *C. sordidus*.

#### ***Chlorurus strongylocephalus* (Bleeker)**

*Scarus strongylocephalus* Bleeker, 1854f: 439 (Jakarta).

*Pseudoscarus microcheilos* Bleeker, 1861b: 231 (Jakarta).

DISTRIBUTION: Kenya, Mozambique, Madagascar, Chagos, Seychelles, Maldives, Oman, and Indonesia.

REMARKS: Synonymized with *S. gibbus* by Randall & Bruce (1983), Choat & Randall (1986); corrected by Randall (1992b). Not known from Red Sea.

#### ***Chlorurus troschelii* (Bleeker)**

*Scarus troschelii* Bleeker, 1853d: 498 (Jakarta, Indonesia).

?*Pseudoscarus rhoduropterus* Bleeker, 1861b: 233 (Makasar Sulawesi [Celebes], Indonesia).

DISTRIBUTION: Indonesia to Thailand.

REMARKS: *Pseudoscarus rhoduropterus* Bleeker is an initial phase of *Chlorurus*, possibly *C. troschelii*.

#### **Genus *Cryptotomus* Cope**

*Cryptotomus* Cope, 1871: 462 (type-species, *Cryptotomus roseus* Cope, by monotypy).

One species.

#### ***Cryptotomus roseus* (Cope)**

*Cryptotomus roseus* Cope, 1871: 462, figs. 1, 1a (St. Martin Id, West Indies).

*Cryptotomus crassiceps* Bean, 1906: 32 (Bermuda).

DISTRIBUTION: Bermuda, South Carolina to Florida, West Indies and Caribbean to southern Brazil.



REMARKS: synonymy from Schultz (1958).

### Genus *Hipposcarus* Smith

*Hipposcarus* Smith, 1956b: 17 (type-species, *Scarus harid* Forsskål, by original designation).

Two species; Indo-Pacific.

#### *Hipposcarus harid* (Forsskål)

*Scarus harid* Forsskål, 1775: 30 (Red Sea).

*Scarus mastax* Rüppell, 1829: 80, pl. 21, fig. 2 (Red Sea).

*Petronason longicauda* Swainson, 1839: 226 (based on *Scarus mastax* Rüppell).

*Scarus latus* Val. (ex Ehrenberg) in Cuv. & Val., 1840: 245 (Red Sea).

*Scarus ruppelii* Val., 1840: 259 (Red Sea).

*Scarus cyanurus* Val., 1840: 261 (Jeddah, Saudi Arabia).

*Hipposcarus harid vexillus* Smith, 1959: 277, fig. 9 (Shimoni, Kenya).

DISTRIBUTION: Western Indian Ocean, Red Sea to Mozambique, Seychelles, Maldives, Mauritius, Chagos.

REMARKS: synonymy from Smith (1956a) and Dor (1984).

#### *Hipposcarus longiceps* (Valenciennes)

*Scarus longiceps* Val., 1840: 241 (Waigiou, Indonesia).

*Scarus pinguistrostratus* Fowler, 1904: 541, pl. 21, upper fig. (Padang, Sumatra, Indonesia).

*Scarus macrocheilos* Bleeker, 1854a: 60 (Indonesia).

*Hipposcarus schultzi* Smith, 1959: 277, fig. 8 (Murcielagos Bay, Philippines).

DISTRIBUTION: western Pacific to French Polynesia.

### Genus *Leptoscarus* Swainson

*Leptoscarus* Swainson, 1839: 172, 226 (type-species, *Scarus vaigiensis* Quoy & Gaimard, by monotypy; proposed as a subgenus).

*Scarichthys* Bleeker, 1859c: xvii, 106 (type-species, *Scarus naevius* Valenciennes, by subsequent designation).

Genus revised by Bruce & Randall (1985). One species.

#### *Leptoscarus vaigiensis* (Quoy & Gaimard)

*Scarus vaigiensis* Quoy & Gaimard, 1824: 288 (Waigeo [Waigiou], Indonesia).

*Scarus (Calliodon) coeruleopunctatus* Rüppell, 1835: 24, pl. 7, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Scarus rubronotatus* Val. (ex Ehrenberg) in Cuv. & Val., 1840: 212 (Gulf of Aqaba, Red Sea).

*Scarus auritus* Val., 1840: 218 (Java, Indonesia).

*Scarus naevius* Val., 1840: 253 (Seychelles).

*Scarus bottae* Val., 1840: 262 (Jeddah, Red Sea).

*Calliodon chlorolepis* Richardson, 1845: 137, pl. 64, figs. 4-7 (Hong Kong, China).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and

Easter Id.

### Genus *Nicholsina* Fowler

*Nicholsina* Fowler, 1915a: 3 (type-species, *Cryptotomus beryllinus* Jordan & Swain, by original designation; proposed as a subgenus).

*Xenoscarus* Evermann & Radcliffe, 1917: 129 (type-species, *Xenoscarus denticulatus* Evermann & Radcliffe, by original designation).

Two species (Schultz, 1958). Atlantic and eastern Pacific.

#### *Nicholsina usta* (Valenciennes)

*Callyodon ustus* Val., 1840: 286, pl. 405 (Brazil).

*Callyodon auropunctatus* Val., 1840: 290 (Santo Domingo).

*Scarus dentiens* Poey, 1861: 422 (Cuba).

*Calliodon retractus* Poey, 1868: 345 (Cuba).

*Cryptotomus beryllinus* Jordan & Swain, 1884: 101 (Havana, Cuba; Key West, Florida, U.S.A.).

*Nicholsina usta collettei* Schultz, 1968: 2, pl. 1 (off Guinea, west Africa, 9°53'N, 15°56'W).

DISTRIBUTION: two subspecies, *N. usta usta* Valenciennes, from Bermuda, New Jersey to northern Gulf of Mexico to Brazil; and *N. usta collettei* from Senegal to at least Annobón Id off Gabon (Randall, 1990).

#### *Nicholsina denticulata* (Evermann & Radcliffe)

*Xenoscarus denticulatus* Evermann & Radcliffe, 1917: 129, pl. 12, fig. 1 (Lobos de Afuera Id, Peru).

*Xenoscarus hubbsi* Harry, 1950: 147, figs. 2-3 (Guaymas, Sonora, Gulf of California, Mexico).

DISTRIBUTION: Baja California to Peru and Galápagos Ids.

### Genus *Scarus* Forsskål

*Scarus* Forsskål, 1775: x, 25 (type-species, *Scarus psittacus* Forsskål, by subsequent designation).

*Callyodon* Scopoli (ex Gronow), 1777: 449 (type-species, *Scarus croicensis* Bloch, by subsequent designation).

*Petronason* Swainson, 1839: 172, 226 (type-species, *Scarus psittacus* of Rüppell, by subsequent designation).

*Erychthys* Swainson, 1839: 172, 226 (type-species, *Scarus croicensis* Bloch, by subsequent designation; proposed as a subgenus).

*Hemistoma* Swainson, 1839: 172, 226 (type-species, *Hemistoma reticulata* Swainson, by monotypy, proposed as a subgenus).

*Loro* Jordan & Evermann, 1896: 418 (type-species, *Scarus guacamaia* Cuvier, by original designation).

*Margaritodon* Smith, 1956b: 15 (type-species, *Callyodon verweyi* de Beaufort [= *Scarus festivus*], by original designation).

*Scarops* Schultz, 1958: 17, 18 (type-species, *Scarus rubroviolaceus* Bleeker, by original designation).

*Xenoscarops* Schultz, 1958: 16, 23 (type-species, *Scarus*



*perrico* Jordan & Gilbert, by original designation; proposed as a subgenus).

Fifty-one species, 2 of which are undescribed; circumtropical.

***Scarus altipinnis* (Steindachner)**

*Pseudoscarus altipinnis* Steindachner, 1879: 18 (type localities, Gilbert [Kingsmill] Ids and Hawaiian Ids).  
*Callyodon waitei* Seale, 1906: 60, fig. 15 (Tahiti).  
*Pseudoscarus brevifilis* Günther, 1909: 327 (Tahiti and Apamana [Abemana], Gilbert Ids).

DISTRIBUTION: central and western Pacific.

***Scarus arabicus* (Steindachner)**

*Pseudoscarus arabicus* Steindachner, 1902: 318 (Al Mukallā, Yemen, Gulf of Aden).

DISTRIBUTION: Arabian Sea; Gulf of Aden to Pakistan.

***Scarus caudofasciatus* (Günther)**

*Pseudoscarus caudofasciatus* Günther, 1862: 238 (Mauritius).  
*Callyodon rubrofasciatus* Smith, 1956b: 10, pl. 43, fig. 1 (Shimoni, Kenya).

DISTRIBUTION: Red Sea to South Africa and western Indian Ocean.

***Scarus chameleon* Choat & Randall**

*Scarus lunula* (non Snyder): Choat & Robertson, 1975: 264.  
*Scarus chameleon* Choat & Randall, 1986: 199, pl. 3, figs. C-D; pl. 9, figs. D-H (Sumilon Id, Cebu, Philippines).

DISTRIBUTION: western Australia to Philippines and Fiji.

***Scarus chinensis* (Steindachner)**

*Pseudoscarus chinensis* Steindachner, 1867b: 585 (Ningbo [Ningpo], Zhejiang province, China).

DISTRIBUTION: coasts of China.

REMARKS: This species was recognized by Bleeker (1873), Reeves (1927), Chu (1931), and Fowler (1956); known only from the holotype. The colour description is unlike that of any known species of *Scarus*; therefore we regard the species as probably valid.

***Scarus coelestinus* Valenciennes**

*Scarus coelestinus* Val., 1840: 180 (St. Thomas, Virgin Ids, West Indies).  
*Scarus rostratus* Poey, 1860: 221 (Cuba; preoccupied by *Scarus rostratus* Shaw, 1803).  
*Pseudoscarus simplex* Poey, 1865: 185 (Cuba).  
*Pseudoscarus plumbeus* Bean, 1912: 125 (Bermuda).

DISTRIBUTION: Bermuda, South Florida, Caribbean, West Indies to Brazil.

***Scarus coeruleus* (Bloch)**

*Coryphaena coerulea* Bloch, 1786: 148, pl. 176 (Bahamas and Antilles).  
*Calliodon gibbosus* Bloch & Schneider, 1801: 313 (Carolina, U.S.A.).  
*Scarus loro* Bloch & Schneider, 1801: 288 (South America).  
*Scarus trilobatus* Lacepède, 1802: 5, 21 (Martinique).  
*Sparus holocyaneos* Lacepède, 1802: 45, 141 (Martinique).  
*Scarus obtusus* Poey, 1860: 217 (Cuba).  
*Scarus nuchalis* Poey, 1860: 220 (Cuba).

DISTRIBUTION: Bermuda, Maryland to Florida, Caribbean, West Indies to Brazil; absent from Gulf of Mexico.

***Scarus collana* Rüppell**

*Scarus collana* Rüppell, 1835: 25, pl. 8, fig. 2 (Massawa, Eritrea, Red Sea).  
*Scarus collaris* Val., 1840: 265 (error for *collana*).  
*Pseudoscarus ismailius* Kossmann & Rüuber, 1877: 410 (Red Sea).  
*Scarus ghardaqensis* Bebars, 1978: 78, fig. 2 (Al-Ghardaqa, Egypt, Red Sea).

DISTRIBUTION: Red Sea.

***Scarus compressus* (Osburn & Nichols)**

*Callyodon compressus* Osburn & Nichols, 1916: 171, fig. 13 (Concepción Bay, Baja California, Mexico).

DISTRIBUTION: Gulf of California to Ecuador including Galápagos Ids.

***Scarus dimidiatus* Bleeker**

*Scarus dimidiatus* Bleeker, 1859b: 17 (Doreh, New Guinea).  
*Callyodon zonularis* Jordan & Seale, 1906: 321, fig. 60 (Pago Pago, American Samoa).  
*Callyodon fumifrons* Jordan & Seale, 1906: 326, pl. 34 (Pago Pago, American Samoa).

DISTRIBUTION: Indonesia to Ryukyus, and Samoa.

***Scarus dubius* Bennett**

*Scarus dubius* Bennett, 1828b: 37 (Hawaiian Ids).  
*Scarus formosus* Val., 1840: 283 (Hawaiian Ids).  
*Scarus bennetti* Val., 1840: 270 (Hawaiian Ids).  
*Scarus lauia* Jordan & Evermann, 1903: 196 (Hawaii Id).

DISTRIBUTION: Hawaiian Ids.

***Scarus falcipinnis* (Playfair)**

*Pseudoscarus falcipinnis* Playfair, 1868: 865, fig. 3



(Seychelles).

*Callyodon pindae* Smith, 1956b: 11, pl. 45, fig. 1 (Pinda, Mozambique).

*Callyodon improvisus* Smith, 1956b: 12, pl. 41, fig. E (Mahé, Seychelles).

DISTRIBUTION: Seychelles, Oman, Mozambique, Mauritius.

The juvenile *Scarus falcipinnis* from Chagos (Winterbottom et al., 1989) may be *S. prasiognathos*.

#### *Scarus ferrugineus* Forsskal

*Scarus ferrugineus* Forsskal, 1775: 29 (Dahab, northwest coast of Gulf of Aqaba, Red Sea).

*Scarus coerulescens* Val., 1840: 230 (Red Sea).

*Scarus aeruginosus* Val., 1840: 257 (Red Sea).

*Pseudoscarus augustinus* Kossmann & Räuber, 1877: 409 (Red Sea).

*Scarus marshalli* Schultz, 1958: 88 (Mersa Sheikh Sa'ad, Red Sea).

DISTRIBUTION: Red Sea to Persian Gulf.

#### *Scarus festivus* Valenciennes

*Scarus festivus* Val., 1840: 282 (no locality).

*Callyodon lunula* Snyder, 1908: 99 (Okinawa, Japan).

*Callyodon verweyi* de Beaufort in Weber & de Beaufort, 1940: 298 (Jakarta [Batavia], Java, Indonesia).

DISTRIBUTION: South Africa, Maldives to Tuamotu Ids.

#### *Scarus flavipectoralis* Schultz

*Scarus flavipectoralis* Schultz, 1958: 52, pl. 9 (Pagapas Bay, Luzon Id, Philippines).

DISTRIBUTION: Philippines to Great Barrier Reef, Caroline and Marshall Ids.

#### *Scarus forsteni* (Bleeker)

*Pseudoscarus forsteni* Bleeker, 1861b: 238 (Indonesia).

*Callyodon laxtoni* Whitley, 1948: 94 (Ocean Id, Australia).

DISTRIBUTION: western Pacific to Pitcairn Group.

REMARKS: Regarded as a synonym of *Scarus tricolor* by Randall and Bruce (1983); further studies have shown that *S. forsteni* is valid (Choat & Randall, 1986). *C. laxtoni* is tentatively placed in the synonymy based on meristics, body shape and emarginate caudal fin.

#### *Scarus frenatus* Lacepède

*Scarus frenatus* Lacepède, 1802: 3, 13, pl. 1, fig. 2 (Indo-Pacific Ocean).

*Scarus sexvittatus* Rüppell, 1835: 26 (Jeddah, Red Sea).

*Callyodon upolensis* Jordan & Seale, 1906: 319, fig. 59 (Apia, Upolu Id, Western Samoa).

*Callyodon vermiculatus* Fowler & Bean, 1928: 472, pl. 49 (Tidore Id, south of Ternate Id, Indonesia).

*Scarus randalli* Schultz, 1958: 97, pls. 19c, 27a; fig. 20

(Onotoa Atoll, Gilbert Ids).

DISTRIBUTION: Indo-Pacific, including Red Sea.

#### *Scarus fuscocaudalis* Randall & Myers

*Scarus* sp. Myers, 1989: 198.

*Scarus* sp. Debelius & Kuitert, 1994: 238.

*Scarus fuscocaudalis* Randall, & Myers, 2000: 222, pl. 1 (Guam).

DISTRIBUTION: East Indies, Palau, Guam, Philippines, and Ryukyu Ids, Japan.

#### *Scarus fuscopurpureus* (Klunzinger)

*Pseudoscarus forsskalii* var. *fuscopurpureus* Klunzinger, 1871: 567 (Al-Quseir [Kosseir], Egypt, Red Sea).

*Pseudoscarus collana* var. *eques* Steindachner, 1903: 151 (Al Mukallā, Yemen, Gulf of Aden).

DISTRIBUTION: Red Sea to Persian Gulf.

#### *Scarus ghobban* Forsskal

*Scarus ghobban* Forsskal, 1775: 28 (Jeddah, Red Sea).

*Scarus guttatus* Bloch & Schneider (ex Sonnerat), 1801: 294 (Indian Seas).

*Scarus maculosus* Lacepède, 1802: 5, 21, pl. 1, fig. 3 (Mauritius).

*Scarus pepo* Bennett [J.W.], 1830: pl. 28 (Sri Lanka).

*Hemistoma reticulata* Swainson, 1839: 226, fig. 77 (*nomen novum* for *Scarus pepo* Bennett).

*Scarus lacerta* Val., 1840: 217 (Pondicherry, India).

*Scarus dussumieri* Val., 1840: 252 (Seychelles).

*Scarus scabriusculus* Val., 1840: 271 (Java, Indonesia).

*Scarus magrathii* Bennett, 1841: pl. 28 (Sri Lanka).

*Scarus pyrostethus* Richardson, 1846b: 262 (China).

*Scarus haridoides* Bleeker, 1855b: 344 (Indonesia).

*Pseudoscarus cantori* Bleeker, 1861b: 240 (Indonesia).

*Pseudoscarus nudirostris* Alleyne & Macleay, 1877: 346, pl. 17, fig. 1 (Cape Grenville, Queensland, Australia).

?*Pseudoscarus papuensis* Macleay, 1883: 590 (Papua New Guinea).

*Pseudoscarus flavipinnis* De Vis, 1885: 886 (Cape York, Queensland, Australia).

*Pseudoscarus californiensis* Pellegrin, 1901: 163 (La Paz Bay, Baja California, Mexico, Gulf of California).

*Scarus noyesi* Heller & Snodgrass, 1903: 206, pl. 9 (Isabela Id [Albemarle Id], Galápagos Ids).

*Pseudoscarus garretti* Günther, 1909: 306, pl. 153, fig. C (Gilbert [Kingsmill] Ids).

*Pseudoscarus natalensis* Gilchrist & Thompson, 1909: 259 (Natal, South Africa).

*Scarus pyrostethus australianus* Paradice in Paradice & Whitley, 1927: 103, pl. 14 (Northern Australia).

*Scarus azureus* Meek & Hildebrand, 1928: 742, pl. 72, fig. 1 (Panama City market, Panama).

*Scarus toshi* Whitley, 1933: 61 (Queensland, Australia).

*Callyodon fuscocuneus* Fowler, 1935: 158, fig. 128 (Bangkok, Thailand).

*Callyodon apridentatus* Smith, 1956b: 14, pl. 44, fig. F



(Malindi, Kenya).

*Callyodon speigleri* Smith, 1956b: 14 (Indo-Pacific).

*Scarus fehlmanni* Schultz, 1969: 24, fig. 2 (Strait of Jubal, 27°16'40"N, 33°46'50"E, Red Sea).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and eastern Pacific.

REMARKS: No type of *Pseudoscarus papuensis* Macleay has been found. From the size of 16 inches, colour description, "crescent-shaped" caudal fin, 3 rows of scales on cheek, and noting that *Scarus ghobban* is not among the 14 scarids listed by Macleay, the best prospect would be *ghobban*. However, one would have to accept an error by Macleay for 13 instead of 15 pectoral rays, and the upper lip should cover more than half, not less than half, of the upper dental plate.

#### *Scarus globiceps* Valenciennes

*Scarus globiceps* Val., 1840: 242 (Tahiti, Society Ids).

*Scarus lepidus* Jenyns, 1842: 108 (Tahiti, Society Ids).

*Pseudoscarus spilonotus* Kner, 1868: 31 (Fiji Ids).

*Pseudoscarus strigipinnis* De Vis, 1885: 886 (Cardwell, Queensland, Australia).

*Pseudoscarus fuscus* De Vis, 1885: 887 (Queensland).

*Scarus pronus* Fowler, 1900: 490, pl. 18, fig. 3 (Caroline (Thornton) Id, [Line Ids]).

DISTRIBUTION: Indo-Pacific, South Africa to Fiji Ids.

REMARKS: synonymy from Randall and Choat (1980). The holotype of *P. strigipinnis* is in poor condition; it is considered *S. globiceps* based on the colour pattern described by De Vis and cheek scale counts.

#### *Scarus gracilis* (Steindachner)

*Pseudoscarus gracilis* Steindachner, 1869: 125 (China).

DISTRIBUTION: China.

REMARKS: Like *Scarus chinensis*, this species is also from China and known only from the type material. It was recognized as valid by Bleeker (1873), Reeves (1927), Chu (1931), and Fowler (1956). Steindachner mentioned a dark stripe from snout to caudal fin, bordered broadly above by yellowish green. No fish with this colour pattern is known to us, although it may prove to be the initial phase of *S. chinensis*.

#### *Scarus guacamaia* Cuvier

*Scarus guacamaia* Cuvier, 1829: 265 (Cuba).

*Scarus turchesius* Val., 1840: 181 (Puerto Rico).

*Scarus pleianus* Poey, 1861: 293 (St. Thomas, Virgin Ids).

DISTRIBUTION: Bermuda, South Florida, and Bahamas to Argentina; absent from Gulf of Mexico.

REMARKS: synonymy from Schultz (1969).

#### *Scarus hoefleri* (Steindachner)

*Pseudoscarus hoefleri* Steindachner, 1881: 159 (Gorée, Senegal).

DISTRIBUTION: Eastern tropical Atlantic.

REMARKS: this species was illustrated and described in more detail in Steindachner 1881b.

#### *Scarus hypselopterus* Bleeker

*Scarus hypselopterus* Bleeker, 1853d: 496 (Indonesia).

*Scarus javanicus* Bleeker, 1854b: 198 (Java, Indonesia).

*Scarus moensi* Bleeker, 1860c: 54 (Sulawesi, Indonesia).

*Callyodon ogos* Seale, 1910: 527 (Philippines).

DISTRIBUTION: Ryukyu Ids to Indonesia and Palau.

#### *Scarus iseri* (Bloch)

*Callyodon iseri* Bloch, 1789: 245 (St. Croix, Virgin Ids).

*Scarus croicensis* Bloch, 1790: 27, pl. 221 (St. Croix Id).

*Scarus insulaesantaeacruis* Bloch & Schneider, 1801: 285 (St. Croix Id, Virgin Ids, West Indies).

*Calliodon lineatus* Bloch & Schneider, 1801: 312, pl. 62, fig. 2 (no locality; plate apparently mislabeled as *Callyodon striatus*).

*Scarus punctulatus* Val., 1840: 195 (Martinique Id, W.I.).

*Scarus diadema* Val., 1840: 198 (Martinique Id, W.I.).

*Scarus alternans* Val., 1840: 200 (Martinique Id, W.I.).

*Scarus flavomarginatus* Val., 1840: 202 (Martinique Id).

*Scarus aracanga* Günther, 1862: 209 (Jamaica).

*Callyodon margarita* Fowler, 1917: 133, fig. 2 (Colón, (Atlantic) Panama).

DISTRIBUTION: Bermuda, North Carolina to Florida, northeast Gulf of Mexico, West Indies and Caribbean to northern South America.

REMARKS: The specific name *iseri* was regarded by Randall and Nelson (1979) as an inadvertent error for *iserti*. However, Bloch spelled *iseri* three times in Latinized form, so it can be argued that there was no inadvertent error. Later it was named *Scarus croicensis* by Bloch (1790). Many authors used *croicensis* as the valid name for this species. Valid as *iserti* in recent literature (Smith-Vaniz et al, 1999).

#### *Scarus koputea* Randall & Choat

*Scarus koputea* Randall & Choat, 1980: 409, figs. 29-31 (Fatu Hiva, Marquesas Ids).

DISTRIBUTION: Marquesas Ids.

#### *Scarus longipinnis* Randall & Choat

*Scarus longipinnis* Randall & Choat, 1980: 414, figs. 32-33 (Pitcairn Id, South Pacific).

DISTRIBUTION: Great Barrier Reef to Pitcairn Ids and Rapa.

#### *Scarus niger* Forsskål

*Scarus niger* Forsskål, 1775: 28 (Red Sea).

?*Scarus chadri* Lacepède, 1802: 2, 12 (Arabia).



*Scarus nuchipunctatus* Val., 1840: 224 (Indian Seas).  
*Scarus limbatus* Val., 1840: 271 (Macao).  
 ?*Scarus makaravar* Montrouzier, 1857: 475 (Woodlark Id).  
*Pseudoscarus flavomarginatus* Kner, 1865b: 262, pl. 10, fig. 2 (Java, Indonesia).  
*Pseudoscarus niger* var. *viridis* Klunzinger, 1871: 570 (Al-Quseir [Kosseir], Egypt, Red Sea).  
*Pseudoscarus madagascariensis* Steindachner, 1887a: 230 (Madagascar).  
*Callyodon maoricus* Jordan & Seale, 1906: 328, pl. 48, fig. 3 (Pago Pago, American Samoa).  
*Pseudoscarus godeffroyi* Günther, 1909: 326, pl. 159 (Society Ids).  
*Callyodon lineolabiatatus* Fowler & Bean, 1928: 457, pl. 47 (Butauanan Id, Philippines).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and Society Ids.

REMARKS: synonymy from Choat and Randall (1986). Lacepède (1802) described *Scarus chadri* as a new name for *Scarus niger* Forsskål; however, he described the fish as having no spinous rays. *Scarus makaravar* was doubtfully identified as a synonym of *S. niger* by Fowler (1928).

#### *Scarus obishime* Randall & Earle

*Scarus obishime* Randall & Earle, 1993: 288, figs. 1-2 (Tatsumi-wan, Chichi-jima, Ogasawara Ids).

DISTRIBUTION: Ogasawara Ids, Japan.

#### *Scarus oviceps* Valenciennes

*Scarus oviceps* Val., 1840: 244 (Tahiti, Society Ids).  
*Pseudoscarus zonatus* Macleay, 1883: 591 (New Guinea).  
*Pseudoscarus knerii* Steindachner, 1887a: 231 (Auckland [?], New Zealand).  
*Callyodon lazulinus* Jordan & Seale, 1906: 333, fig. 65 (Apia, Upolu Id, Western Samoa).

DISTRIBUTION: Philippines to Great Barrier Reef, Marshall Ids and French Polynesia.

REMARKS: *Pseudoscarus knerii* was illustrated and described in more detail in Steindachner 1887b: 64, Pl. 4, figs. 1-1a. Steindachner described *knerii* from two specimens: a 30 cm fish from "Auckland" that Kner (1865b: 261) regarded as a variety of *Scarus aeruginosus* Valenciennes, and a 16 cm fish from ?Madagascar. The Madagascar locality is certainly in error because *S. oviceps* is a Pacific species. The Auckland locality is highly unlikely for an adult, as a few subtropical reef fishes are known from the north island of New Zealand, but most only as juveniles that do not survive their first winter. *Scarus oviceps* is a tropical species not known from any islands near New Zealand (Lord Howe, Norfolk, or the Kermadecs).

#### *Scarus ovifrons* Temminck & Schlegel

*Scarus ovifrons* Temminck & Schlegel, 1846: 173, pl. 88 (Tokyo Bay, Japan).

DISTRIBUTION: southern Japan and Taiwan.

#### *Scarus perrico* Jordan & Gilbert

*Scarus perrico* Jordan & Gilbert, 1882b: 357 (Mazatlán, Sinaloa, western Mexico).  
*Callyodon microps* Osburn & Nichols, 1916: 170, fig. 12 (Santa Catalina Id, Gulf of California, Mexico).  
*Scarus dubius* Hildebrand, 1946: 351, fig. 72 (Lobos de Afuera Bay, Peru; preoccupied by *Scarus dubius* Bennett, 1828).  
*Scarus hildebrandi* Kanazawa, 1952: 203 *nomen novum* for *Scarus dubius* Hildebrand.

DISTRIBUTION: Gulf of California to Peru.

REMARKS: Synonymy from Schultz (1958).

#### *Scarus persicus* Randall & Bruce

*Scarus persicus* Randall & Bruce, 1983: 25, pl. 6, figs. G-H (Bahrain fish market, Persian Gulf).

DISTRIBUTION: Persian Gulf and south coast of Oman.

#### *Scarus prasiognathos* Valenciennes

*Scarus prasiognathos* Val., 1840: 272 (New Ireland Id, Bismarck Archipelago).  
*Scarus chlorodon* Jenyns, 1842: 105, pl. 21 (Cocos-Keeling Ids, Indian Ocean).  
*Scarus singaporensis* Bleeker, 1852a: 69 (Singapore).  
*Scarus janthochir* Bleeker, 1853b: 139 (Ternate, Moluccas, Indonesia; Jakarta, Java, Indonesia).

DISTRIBUTION: Maldives and Chagos to Indonesia and Ryukyu Ids.

#### *Scarus psittacus* Forsskål

*Scarus psittacus* Forsskål, 1775: 29 (Jeddah, Red Sea).  
*Scarus venosus* Val., 1840: 212 (Réunion Id).  
*Scarus hertit* Ehrenberg in Cuvier & Valenciennes, 1840: 215 (Lohaja; Suez; Djedda [Jeddah], Red Sea).  
*Scarus taeniurus* Val., 1840: 257 (Mauritius).  
*Scarus forsteri* Val., 1840: 275 (Tahiti, Society Ids).  
*Pseudoscarus forskalii* Klunzinger, 1871: 566 (*nomen novum* for *Scarus psittacus* Forsskål).  
*Scarus balinensis* Bleeker, 1849b: 8 (Bali, Indonesia).  
*Scarus bataviensis* Bleeker, 1857b: 342 (Indonesia).  
 ?*Pseudocarus* [sic] *oktodon* Bleeker, 1861b: 235 (Butung [Buton], Indonesia).  
*Pseudoscarus filholi* Sauvage, 1880: 225 (Fiji Ids).  
*Pseudoscarus labiosus* Macleay, 1883a: 591 (Port Moresby, Papua New Guinea).  
*Scarus gilberti* Jenkins, 1901: 59, fig. 17 (Hawaiian Ids).  
*Scarus brunneus* Jenkins, 1901: 59, fig. 16 (Honolulu).  
*Scarus jenkinsi* Jordan & Evermann, 1903: 195 (Honolulu).  
*Callyodon erythacus* Jordan & Seale, 1906: 318, fig. 58 (Apia, Upolu Id, Western Samoa).  
*Callyodon hornbosteli* Fowler, 1925: 16 (Guam).  
*Scarus galena* Jordan [E.K.], 1925: 32 (Honolulu).  
*Xanophon carifanus* Smith, 1956b: 6, pl. 42, fig. D (Kenya).



*Xanothon parvidens* Smith, 1956b: 7, pl. 45, fig. E (Bazaruto Id, Mozambique).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Oman, Maldives, Mauritius, Réunion, Chagos, Japan, Australia, Hawaiian Ids and Fiji.

REMARKS: synonymy from Randall and Ormond (1978) and Choat and Randall (1986).

***Scarus quoyi* Valenciennes**

*Scarus quoyi* Val., 1840: 273 (Bismarck Archipelago).

*Callyodon mutabilis* Gronow in Gray, 1854: 86 (Ambon Id, Moluccas Ids, Indonesia).

*Scarus chrysopomus* Bleeker, 1847: 163 (Indonesia).

*Pseudoscarus moresbyensis* Macleay, 1883a: 591 (Port Moresby, Papua New Guinea).

*Callyodon hadji* Seale, 1910: 525 (Philippines).

DISTRIBUTION: India and Moluccas to western Pacific.

***Scarus rivulatus* Valenciennes**

*Scarus rivulatus* Val., 1840: 223 (Java, Indonesia).

*Scarus fasciatus* Val., 1840: 222 (Moluccas, Indonesia).

*Scarus arcuatus* Val., 1840: 276 (Thailand).

*Scarus micrognathos* Bleeker, 1847: 164 (Indonesia).

*Scarus rivulatoides* Bleeker, 1847: 163 (Java, Indonesia).

*Pseudoscarus flavolineatus* Alleyne & Macleay, 1877: 346, pl. 16, fig. 3 (Queensland, Australia).

DISTRIBUTION: western Australia to Thailand, Ryukyu Ids; New Caledonia, Palau, Norfolk and Kermadecs Ids..

REMARKS: synonymy from Randall and Choat (1980) and Choat and Randall (1986). Bleeker chose *Scarus rivulatus* as the valid name, with *Scarus rivulatoides* and *Scarus micrognathos* in the synonymy.

***Scarus rubroviolaceus* Bleeker**

*Scarus rubroviolaceus* Bleeker, 1847: 162 (Indonesia).

*Pseudoscarus frontalis* Macleay, 1883a: 590 (New Guinea; secondarily preoccupied by *Scarus frontalis* Val. 1840).

*Pseudoscarus jordani* Jenkins, 1901: 63, fig. 21 (Honolulu).

*Scarus paluca* Jenkins, 1901: 60, fig. 18 (Honolulu).

*Scarus calus* Fowler, 1904: 542, pl. 21 (Indonesia).

*Callyodon macleayi* Jordan & Seale in Seale, 1906: 331 (nomen novum for *Pseudoscarus frontalis* Macleay).

*Callyodon ruberrimus* Jordan & Seale, 1906: 316, fig. 56 (Pago Pago, American Samoa).

*Pseudoscarus heliotropinus* Bryan, 1906: 23, fig. 3 (Honolulu market, Oahu Id, Hawaiian Ids).

*Pseudoscarus rostratus* Günther, 1909: 315, pl. 154 (Society Ids).

*Callyodon africanus* Smith, 1955: 19, pl. 3, fig. 26 (Kenya).

DISTRIBUTION: South Africa to eastern Pacific.

***Scarus russelii* Valenciennes**

*Scarus russelii* Val., 1840: 234 (Vizagapatam, India).

*Xanothon fowleri* Smith, 1956b: 5, pl. 42, fig. G (East Africa [Pinda, Mozambique]).

DISTRIBUTION: India, Mozambique, South Africa, Chagos. REMARKS: *Xanothon fowleri* Smith is a synonym according to Randall and Bruce (1983).

***Scarus scaber* Valenciennes**

*Scarus scaber* Val., 1840: 239 (Mauritius).

*Scarus pectoralis* Val., 1840: 269 (Jeddah, Red Sea).

*Pseudoscarus flavomaculatus* Bliss, 1883: 57 (Mauritius).

DISTRIBUTION: Red Sea to Oman, South Africa, Maldives, Mauritius and Chagos.

***Scarus schlegeli* (Bleeker)**

*Pseudoscarus schlegeli* Bleeker, 1861b: 242 (Indonesia).

*Pseudoscarus pentazona* Bleeker, 1861b: 241 (Indonesia).

*Scarus cypho* Seale, 1901a: 95 (Guam, Mariana Ids).

DISTRIBUTION: western and central Pacific.

***Scarus spinus* (Kner)**

*Pseudoscarus spinus* Kner, 1868: 31 (Kandavu, Fiji Ids).

*Callyodon kelloggii* Jordan & Seale, 1906: 327, fig. 62 (Apia, Upolu Id, Western Samoa).

DISTRIBUTION: western Pacific to Micronesia and Samoa.

***Scarus taeniopterus* Desmarest**

*Scarus taeniopterus* Desmarest in Bory de Saint-Vincent 1831: 244 (Cuba).

*Pseudoscarus lineolatus* Poey, 1867: 239 (Cuba).

*Scarus virginalis* Jordan & Swain, 1884: 88 (Cuba).

*Scarus bollmani* Jordan & Evermann, 1887: 470 (off Pensacola, Florida, Gulf of Mexico, U.S.A.).

*Scarus emblematicus* Jordan & Rutter, 1897: 122 (Kingston, Jamaica).

DISTRIBUTION: Bermuda, South Florida, West Indies and Caribbean to Brazil.

REMARKS: synonymy from Schultz (1958).

***Scarus tricolor* (Bleeker)**

*Scarus tricolor* Bleeker, 1847: 164 (Jakarta, Indonesia).

*Scarus cyanognathus* Bleeker, 1847: 164 (Indonesia).

*Callyodon elerae* Jordan & Seale, 1907: 31, fig. 11 (Cavite, Luzon Id, Philippines).

*Callyodon latifasciatus* Seale & Bean, 1907: 237, fig. 7 (Zamboanga, Philippines).

*Callyodon viridibusius* Fowler & Bean, 1928: 459, pl. 48 (Uki, Bouro Id, Moluccas Ids, Indonesia).

*Scarus visayanus* Herre, 1933: 22 (Philippines).

*Callyodon mus* Smith, 1956b: 13, pl. 41, fig. B (Kenya).

*Callyodon urbanus* Smith, 1959: 272, pl. 42, fig. J; fig. 3 (Shimoni, Kenya).



DISTRIBUTION: Kenya to South Africa, Maldives, Chagos, to western Pacific, Micronesia, Samoa, and Line Ids.  
REMARKS: synonymy from Randall and Bruce (1983).  
*Scarus visayanus* Herre is a new synonym of *tricolor*.

***Scarus vetula* Bloch & Schneider**

*Scarus vetula* Bloch & Schneider, 1801: 289 (no locality).  
*Scarus acutus* Poey, 1860: 216 (Havana, Cuba).  
*Scarus superbus* Poey, 1860: 218 (Cuba).  
*Pseudoscarus gnathodus* Poey, 1867: 240 (Cuba).  
*Scarus cuzamilae* Bean, 1891: 196, pl. 29, fig. 4 (Cozumel, Yucatán, Mexico).  
*Scarus nigrescens* Meek & Hildebrand, 1928: 743, pl. 72, fig. 2 (Porto Bello, Atlantic coast of Panama).  
*Scarus roseiventer* Fowler, 1944a: 116, pl. 16 (Courtown Key, Caribbean Sea).

DISTRIBUTION: Bermuda, Florida, Gulf of Mexico, West Indies, and Caribbean to Brazil.  
REMARKS: synonymy from Schultz (1958) and Randall in Böhlke (1984).

***Scarus viridifucatus* (Smith)**

*Callyodon viridifucatus* Smith, 1956b: 9, 12, pl. 42, figs. B, I (Shimoni, Kenya).  
*Callyodon malindiensis* Smith, 1956b: 9, 13, pl. 45H (Malindi, Kenya).

DISTRIBUTION: Kenya to Maldives, Chagos, and Indonesia.

***Scarus xanthopleura* Bleeker**

*Scarus xanthopleura* Bleeker, 1853d: 499 (Indonesia).  
*Scarus atropectoralis* Schultz, 1958: 79, pl. 15, fig. A (Buka Id, Sulawesi [Celebes], Indonesia).

DISTRIBUTION: western Pacific to Palau and Marshall Ids.  
REMARKS: synonymy from Randall (1997).

***Scarus zufar* Randall & Hoover**

*Scarus zufar* Randall & Hoover, 1995: 684, pl. 1 (Oman).

DISTRIBUTION: southern Oman.

***Scarus* sp 1**

*Scarus* sp. Winterbottom et al., 1989: 59, fig. 368.

DISTRIBUTION: Chagos Archipelago.  
REMARKS: The 205 mm SL specimen from Peros Banhos was examined by the second author, but he was unable to identify it with any species presently known.

***Scarus* sp 2**

DISTRIBUTION: Andaman Sea and Sumatra.  
REMARKS: to be described by M. Westneat, U. Satapoomin, and J.E. Randall.

**Genus *Sparisoma* Swainson**

*Sparisoma* Swainson, 1839: 172, 227 (type-species, *Scarus abildgaardii* Bloch, [= *Sparisoma chrysopterum*] by monotypy; proposed as a subgenus).

*Scarus* Bleeker (nec Forsskål), 1849: 4, 9, 42, 44 (type-species, *Labrus cretensis* Linnaeus, by subsequent designation).

*Callyodontichthys* Bleeker, 1861b: 230 (type-species, *Scarus flavescens* Bleeker by subsequent designation).

*Euscarus* Jordan & Evermann, 1896: 416 (type-species, *Labrus cretensis* Linnaeus, by original designation; proposed as a subgenus).

Atlantic; 9 species (Randall, 1990; Cervigón et al., 1993).

***Sparisoma atomarium* (Poey)**

*Scarus atomarius* Poey, 1861: 423 (Havana, Cuba).

DISTRIBUTION: Bermuda, Florida, Gulf of Mexico, West Indies, Honduras to northern South America.  
REMARKS: Validity shown by Randall (1965b).

***Sparisoma aurofrenatum* Valenciennes**

*Scarus aurofrenatus* Val., 1840: 191 (Santo Domingo).  
*Scarus miniofrenatus* Poey, 1861: 379, 393 *nomen novum* for *Scarus aurofrenatus* Valenciennes.

*Scarus distinctus* Poey, 1861: 423 (Havana, Cuba).

*Scarus erythrinoides* Guichenot, 1865: 10 (Santo Domingo).

*Scarus oxybrachius* Poey, 1868: 342 (Havana, Cuba).

DISTRIBUTION: Bermuda, Florida, West Indies, Caribbean, Central America to Brazil.

***Sparisoma chrysopterum* (Bloch & Schneider)**

*Sparus abildgaardi* Bloch, 1791: 22, pl. 259 (St. Croix Id, Virgin Ids, West Indies).

*Scarus chrysopterus* Bloch & Schneider, 1801: 286, pl. 57 (American Seas).

*Scarus chloris* Bloch & Schneider, 1801: 289 (Cuba).

*Scarus flavescens* Bloch & Schneider, 1801: 290 (Cuba).

?*Scarus virens* Val., 1840: 203 (Martinique Id).

*Scarus squalidus* Poey, 1860: 218 (Cuba).

*Scarus lateralis* Poey, 1860: 219 (Cuba).

*Scarus brachialis* Poey, 1861: 345 (Cuba).

*Scarus maschalespilos* Bleeker, 1862c: 127 (Suriname).

*Sparisoma lorito* Jordan & Swain, 1884: 95 (Cuba).

*Sparisoma elongatum* Meek & Hildebrand, 1928: 757, pl. 74, fig. 2 (market at Panama City, Panama; specimen probably caught on Atlantic side of Panama).

DISTRIBUTION: Bermuda, Florida, West Indies, Central America to Brazil.

REMARKS: Rodrigo L. Moura and J.E. Randall have prepared a petition to the International Commission of Zoological Nomenclature (Case 3051) to reject the name *Sparisoma abildgaardi* in order to conserve *Sparisoma chrysopterum*. They discovered that the true



*abildgaardi* is not the initial phase of *viride*, as generally accepted (Randall, 1990), but an older name for *chrysopteron*. *Scarus virens* is a probable synonym of *S. chrysopteron* (Randall, 1990).

***Sparisoma cretense* (Linnaeus)**

*Labrus cretensis* Linnaeus, 1758: 282 (Crete).  
*Labrus xantherythrus* Rafinesque 1810a: 40 (Sicily).  
*Scarus canariensis* Valenciennes, 1838: pl. 17, fig. 2 (Canary Ids).  
*Scarus rubiginosus* Val., 1840: 171 (Canary Ids; Madeira).  
*Scarus mutabilis* Lowe, 1838: 187 (Madeira).  
*Scarus siculus* Cocco, 1846: 748 (Sicily, Italy).  
*Scarus rubiginoides* Guichenot, 1865: 8 (Canary Ids).

DISTRIBUTION: Mediterranean (sporadic) and eastern Atlantic from Portugal to Senegal.  
REMARKS: the description of *Scarus canariensis* was published after the plate (Valenciennes, 1843: 68).

***Sparisoma griseorubra* Cervigón**

*Sparisoma griseorubra* Cervigón, 1982: 5 (Coast of Sur de la isla de Cubagua, Venezuela).

DISTRIBUTION: apparently known only from the type locality (Cervigón et al., 1993).

***Sparisoma radians* (Valenciennes)**

*Scarus radians* Val., 1840: 206 (Mexico).  
*Scarus lacrimosus* Poey, 1861: 422 (Havana, Cuba).  
*Callyodontichthys bleekeri* Steindachner, 1863a: 1111, pl. 24, figs 2-2b (Bahia, Brazil).  
*Sparisoma cyanolene* Jordan & Swain, 1884: 98 (Key West, Florida, U.S.A.).  
*Sparisoma xystrodon* Jordan & Swain, 1884: 99 (Key West, Florida, U.S.A.).  
*Scarus hoplomystax* Cope, 1871: 462 (St. Martin, W.I.).  
*Sparisoma niphobles* Jordan & Bollmann, 1889: 551 (Green Turtle Cay, Bahamas).  
*Sparisoma abbotti* Fowler, 1915b: 258, fig. 2 (St. Vincent Id, West Indies).  
*?Scaridea octodon* Fowler, 1928: 368, fig. 59 ("Hawaiian Ids"; type locality evidently erroneous).

DISTRIBUTION: Bermuda, North Carolina to Florida, Bahamas, Antilles, Central America to Venezuela.

***Sparisoma rubripinne* (Valenciennes)**

*Scarus rubripinnis* Val., 1840: 199 (Santo Domingo).  
*?Scarus circumnotatus* Poey, 1861: 423 (Cuba).  
*Scarus spinidens* Guichenot, 1865: 15 (Bahia, Brazil; preoccupied by *Scarus spinidens* Quoy & Gaimard 1824 [= *Calotomus spinidens* (Quoy & Gaimard)]).  
*Scarus truncatus* Poey, 1868: 339 (Havana, Cuba).  
*?Scarus emarginatus* Poey, 1868: 340 (Havana, Cuba).  
*Scarus (Scarus) axillaris* Steindachner, 1878: 384, pl. 3, fig. 1 ("probably coast of North Australia" [evidently an error]).

*Sparisoma rhomaleum* Meek & Hildebrand, 1928: 754, pl. 74, fig. 1 (Colón market, (Atlantic) Panama).  
*Sparisoma pachycephalum* Longley in Longley & Hildebrand, 1941: 215, pl. 28, fig. 2 (Tortugas, Florida, U.S.A.; new name for *Sparisoma flavescens* (nec Bloch & Schneider) Jordan & Swain, 1884).

DISTRIBUTION: Bermuda, North Carolina to Florida, West Indies, Central America to Brazil; also eastern Atlantic from Senegal to Gulf of Guinea.

REMARKS: *Scarus circumnotatus* and *Scarus emarginatus* are doubtful synonyms (Randall, 1990).

***Sparisoma strigatum* (Günther)**

*Scarus strigatus* Günther, 1862: 212 (no locality [probably St. Helena]).

DISTRIBUTION: St. Helena (eastern Atlantic).

***Sparisoma viride* (Bonnaterre)**

*Scarus viridis* Bonnaterre, 1788: 96, pl. 50, fig. 193 (Bahamas).  
*Scarus coccineus* Bloch & Schneider, 1801: 289 (Cuba).  
*Scarus catesby* Lacepède, 1802: 4, 16 (Carolina, U.S.A.).  
*Sparus aureoruber* Lacepède, 1802: 56 (Martinique Id).  
*Scarus frondosus* Agassiz in Spix and Agassiz, 1829: 98, pl. 54 (Bahia, Brazil).  
*Scarus amplus* Ranzani, 1842: 324, pl. 25 (Brazil).  
*Scarus melanotis* Bleeker, 1862c: 126 (St. Croix Id, W.I.).

DISTRIBUTION: Bermuda, Florida, Gulf of Mexico, West Indies, and Central America to Brazil.

**NON-LABROID FISHES ORIGINALLY DESCRIBED IN LABROID GENERA**

*Ctenolabrus ? knoxi* Hutton, 1873 = *Girella tricuspidata* Quoy & Gaimard, Kyphosidae (B. Russell, 1996).

*Julis horsfieldii* Valenciennes, 1839 = *Labracinus cyclophthalmus* (Möller & Troschel), Pseudochromidae (Gill & Randall, 1999).

*Labrus ciavolus* Rafinesque 1810 = *Spicara maena* (Linnaeus), Centranchidae.  
*Labrus loeflingii* Walbaum, 1792 = unidentifiable serranid.  
*Labrus spinosus* Mitchell, 1814 = *Trachinotus falcatus* (Linnaeus), Carangidae (C. L. Smith, pers. comm.).

*Scarus maxillosus* Zouiew (1782: 230 (Mediterranean and Red Sea; does not correspond with any known labrid or scarid species).



## SPECIES INCERTAE SEDIS

### LABRIDAE

- Coryphaena virens* Linnaeus, 1766: 448 (Asiatic Sea). Wheeler (1991) examined the probable holotype in the Zoological Museum of the University of Uppsala and regarded it as an undetermined *Hemipteronotus* (= *Xyrichtys*). If the locality indicated by Linnaeus is correct, then this fish is unlikely to be the Atlantic-Mediterranean species *Xyrichtys novacula* (Linnaeus) as proposed by some authors. This Linnean name should be regarded as a *nomen oblitum*.
- Crenilabrus chrysophrus* Risso, 1827: 319 (Nice); type lost (Bauchot, 1963). This species is an unidentifiable *Symphodus*; the synonymy with *Symphodus mediterraneus* (Linnaeus) proposed by Carus (1893) was not confirmed.
- Crenilabrus intermedius*, *C. serranoides*, & *C. serranus* described by Gulia, 1861: 14, 15 (Malta) are unidentifiable *Symphodus*.
- Julichthys inornata* De Vis, 1885: 884 (Great Barrier Reef, Australia). The dorsal-fin count of 11 spines and 11 soft-rays and the 2 anal-fin spines given for this species by De Vis do not match any labrid fish known from the Great Barrier Reef. The description of the colour, in particular the mention of dark brown dots posteriorly on the body, suggests that De Vis may have had a female *Halichoeres chloropterus* (Bloch). With no type extant to check the dorsal-fin count (as well as the count of 2 anal spines), we assume these counts were in error or aberrant.
- Julis (Julis) girardi* Bleeker, 1858-59a: 168 (Boleling, northern Bali, Indonesia). Bleeker described the genus *Pseudojulis* principally from the lack of a canine tooth at the corner of the mouth of *Julis girardi*. Randall (1978) redescribed the holotype of the type-species of the genus, *Pseudojulis girardi*, BMNH 1864.5.15.13, 67.5 mm SL. He noted that there is no canine tooth at the corner of the mouth of *Halichoeres bimaculatus* Rüppell, (type-species of *Halichoeres* and now a junior synonym of *H. zeylonicus*), at a length of 115 mm SL or less. Nor could he find any differences in external morphology of *P. girardi* and *H. zeylonicus*. The unusual striped pattern of Bleeker's illustration of *P. girardi* in Atlas Ichthyologique (1862), vol. 1, pl. 33, fig. 3, with a narrow dark mid-lateral stripe on the body curving dorsally on the head behind the eye would seem species specific. However, extensive collecting in Indonesia by the second author and colleagues has failed to yield any labrid fish with this colour pattern. Randall (1978) noted that no trace of the dark stripe remains on the holotype of *P. girardi*, but the triangular blackish spot still persists at the upper base of the pectoral fin. We now believe that *P. girardi* is the initial phase of *H. zeylonicus* or its Pacific counterpart, *H. hartzfeldii* (Bleeker), both of which occur in Indonesia (Rudie H. Kuiter, pers. comm.), that the stripe of the holotype of *P. girardi* was yellow or orange in life, hence did not persist in preservative, and that it was inaccurately portrayed as curving upward on the head. All of the meristic data of the holotype of *P. girardi* fit the modal data of *H. zeylonicus* and *H. hartzfeldii*.
- Julis pavoninus* Val., 1839: 483 (no locality [East Indies]; based on a drawing of Renard, this species is an unidentifiable *Halichoeres* [Pietsch, 1995]).
- Labrus citrinus* Walbaum 1792: 261 (Japan; based on *Labrus japonicus* Houttuyn (see below).
- Labrus coromandelicus* Bloch & Schneider 1801: 244 (Tranquebar, India). The fin counts of D IX,10 and A II,12 do not fit any known labrid species.
- Labrus ephippium* Val., 1839: 96 ("Java" [erroneous]). M. Boeseman examined the holotype at the Netherlands Royal Museum of Leyden. He wrote (Bauchot, 1963): "I believe that it represents a species from Atlantic or Mediterranean Sea, even though I am unable to identify it precisely. It appears very similar to *Labrus bergylta* Ascanius, but the lateral line is slightly different (39-40 tubules vs 41-47)".
- Labrus gouanii* Lacepède, 1801: 433, 480 (no locality); an unidentifiable species.
- Labrus japonicus* Houttuyn, 1782: 324 (Japan). The original description of *Labrus japonicus* agrees with no Japanese labrid fish (Mabuchi & Nakabo, 1997). The labrid fish formerly known as *Pseudolabrus japonicus* (Houttuyn) comprises two distinct species, *Pseudolabrus sieboldi* Mabuchi & Nakabo, 1997 and *Pseudolabrus eoethinus* (Richardson, 1846).
- Labrus javensis* Bloch & Schneider 1801: 243 (no locality given). Assuming (from the name) that this fish was from Java, it probably is a species of *Bodianus*. The description may pertain to any of a number of species, although "head scaled" may restrict it to species that have predorsal scales extending to in front of the eye. There are several species of *Bodianus* in the Indonesian region that have this characteristic.
- Labrus lineatus* Walbaum 1792: 247 (no locality; preoccupied by *Labrus lineatus* Bonnaterre, 1788 [= *Labrus mixtus* Linnaeus]). Species unidentifiable.
- Labrus macrolepidotus* Walbaum 1792: 266 (no locality; preoccupied by *Labrus macrolepidotus* Bloch, 1791 (= *Novaculichthys macrolepidotus*); an unidentifiable species based on Gronov. Mus. I n. 86.
- Labrus maculosus* Gronow in Gray 1854: 81 (Indian Ocean); species unidentifiable.
- Labrus malacopterus* Forster 1795: 15 (India); species unidentifiable. Reported by Bloch and Schneider (1801: 286).
- Labrus melanotus* Rafinesque 1810a: 40, pl. 12, fig. 4 (Sicily); regarded by Bonaparte (1846) as *Labrus coeruleus* Risso (= *Labrus merula* Linnaeus) and by Jordan (1890: 617) as a questionable synonym of *Symphodus melanocercus*. Species unidentifiable.
- Labrus perioides* Walbaum 1792: 260 (no locality); unidentifiable.
- Labrus pictus* Gronow in Gray 1854: 80 preoccupied by *Labrus pictus* Bloch & Schneider, 1801 (= *Coris picta*) (Indian Ocean). Günther (1862) placed this species in the genus *PlatyGLOSSUS* (= *Halichoeres*). Species unidentifiable.
- Labrus porcus* Rafinesque, 1810a: 37 (Sicily); regarded as a questionable synonym of *Symphodus melanocercus* by Cocco (Facciola, 1885: 231) or *Labrus viridis* by Jordan (1890: 610); this species remains unidentifiable.
- Labrus quinque maculatus* Bloch, 1792: 10, pl. 291, fig. 2 (Norway); unidentifiable (Quignard, 1966).
- Labrus reticulatus* Walbaum, 1792: 266 (no locality; preoccupied by *Labrus reticulatus* Bonnaterre, 1788 [= *Symphodus*



*ocellatus*)). Regarded by Jordan (1890: 617) as a questionable synonym of *Symphodus melops*. Species unidentifiable.

*Labrus rubiginosus* Risso 1827: 306 (Nice); no type; an unidentifiable species of *Symphodus* (Bauchot, 1963).

*Labrus scarus* Linnaeus, 1758: 282 (Greece; Sicily); unidentifiable (Monod, 1973: 444, footnote 3).

*Labrus ?tagiselem* Montrouzier, 1857: 469 (Woodlark Id, southwestern Pacific); Fowler (1928: 346) mentioned this imperfectly described species under the account of *Coris angulata* Lacepède (= *Coris aygula* Lacepède).

*Labrus tetraodon* Bloch & Schneider 1801: 263 (no locality); based on Seba; a species not identifiable as any labrid we know today. It could be a *Chromis* according to Cuvier and Valenciennes (1840: 4).

*Labrus tineia* Forsskal, 1775: xv (Istanbul, Turkey); species unidentifiable.

*Labrus unicolor* Bloch & Schneider 1801: 268 (no locality); an unidentifiable labrid with interrupted lateral line.

*Labrus variegatus* Nardo, 1824b: 253 (Adriatic Sea); preoccupied by *Labrus variegatus* Gmelin, 1789 [= *Labrus mixtus* Linnaeus]. Apparently described independently of Gmelin, 1789; replaced by *Lutjanus manis* Nardo, 1827. An unidentifiable *Symphodus* possibly *melops* or *roissali*.

*Leptojulis bimaculatus* Kner & Steindachner, 1867: 378 (Chile); possibly a synonym of *Halichoeres dispilus* (Günther).

*Lutianus erythrophthalmus* Rafinesque, 1810b: 67 (Sicily, Italy); the fin ray counts are consistent with *Ctenolabrus rupestris*, but the description is inadequate to identify this species.

*Lutjanus notatus* Bloch, 1790: 125, pl. 251, fig. 2 (East Indies); type locality probably erroneous. With 14 dorsal fin spines and 8 soft rays this species might belong to *Symphodus*, as suggested by Valenciennes (1839: 217), who tentatively placed it in *Crenilabrus*. As pointed out by Valenciennes, nothing in the description is diagnostic and the affinities of this species are uncertain.

*Xyrichtys virens* Val., 1840: 47 ("Tahiti" [?]). Randall (1973) listed this as a valid species from the literature. It was described from a drawing attributed by Valenciennes to Sydney Parkinson (labeled "*Coryphaena virens*") and associated with Captain James Cook's first voyage. The colour described by Valenciennes is similar to that of female *X. pentadactylus*; however this species is not known from oceanic islands of the Pacific, so it may have been collected before the expedition got to the Pacific. Valenciennes did not realize that *Coryphaena virens* was a Linnean taxon presently regarded as an unidentifiable *Xyrichtys* (see above in this section).

## SCARIDAE

*Callyodon cretensis* Bloch, 1789: 246 (?Crete); probably represents *Scarus cretensis* Bloch, 1790: 23, renamed by Valenciennes as *Scarus striatus*, an unidentifiable species.

*Pseudoscarus maculiceps* Peters, 1876: 443 (Mauritius); unidentifiable species (Randall & Bruce, 1983).

*Pseudoscarus obscurus* Castelnau, 1875: 41 (Queensland, Australia); unidentifiable species (Choat & Randall, 1986).

*Pseudoscarus richardsoni* Castelnau, 1875: 42 (Queensland, Australia); unidentifiable species (Choat & Randall, 1986).

*Pseudoscarus viridescens* Castelnau, 1875: 42 (Queensland, Australia); unidentifiable species (Choat & Randall, 1986).

*Scarus caninus* Gronow in Gray, 1854: 63 (Mediterranean Sea); unidentifiable species.

*Scarus capistratus* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1840: 239 (Java); unidentifiable species.

*Scarus cruentatus* Val., 1840: 277 (Ulea, Caroline Ids); unidentifiable species (Randall & Bruce, 1983).

*Scarus evermanni* Jordan in Jordan & Evermann, 1887: 469 (off Tampa Bay, Florida, U.S.A.; based on a fish from stomach of a predator); a synonym of *Scarus croicensis* according to Schultz (1958); we regard this species as unidentifiable.

*Scarus denticulatus* Lacepède, 1802: 3, pl. 1, fig. 1 (Indo-Pacific Ocean); unidentifiable species (Randall & Bruce, 1983).

*Scarus humeralis* Poey, 1861: 422 (Havana, Cuba); unidentifiable (Schultz, 1958).

*Scarus kakatoe* Lacepède, 1802: 3, 13 (Asiatic Sea, Crete, Syria, Egypt); unidentifiable species.

*Scarus lunulatus* Val., 1840: 268 (Red Sea); unidentifiable species (Randall & Bruce, 1983).

*Scarus maculatus* Gronow in Gray, 1854: 63 (no locality); unidentifiable species.

*Scarus mentalis* Val. (ex Ehrenberg) in Cuv. & Val., 1840: 233 (Red Sea); regarded as unidentifiable by Randall and Bruce (1983); synonymized with *Chlorurus sordidus* by Dor (1984).

*Scarus mertensii* Val., 1840: 281 (Ulea, Caroline Ids); based on a drawing; unidentifiable (Randall & Bruce, 1983).

*Scarus quadrispinosus* Val., 1840: 197 (Martinique Id, West Indies). Bauchot and Guibé (1960) considered this species a synonym of *Scarus vetula*. Mme Bauchot looked again at the dried, varnished, dark holotype. She corrected the count of pectoral rays from 11-13 to 14 or 15. She noted that there are only 2 rows of cheek scales. Valenciennes wrote that there was reason to suppose that the fish came from Brazil, but Bauchot (pers. comm.) added that it might also have come from the Pacific. If Brazil is the true locality, the total length given for the specimen, 28 pouces (= 760 mm), would apply to only two western Atlantic species, *Scarus coelestinus* and *Scarus guacamaia*; both of which have the same general morphology, 16 pectoral rays, 6 predorsal scales, and only rarely lack a third row of cheek scales. Lacking information on the colour pattern, and with some doubt of the true locality, this species is unidentifiable.

*Scarus rostratus* Shaw, 1803: 401 (no locality); unidentifiable species (Swain, 1883: 305).

*Scarus striatus* Val., 1840: 209 ("Les Indes"); a new name for the unidentifiable species figured and described by Bloch (1790) as *Scarus cretensis*.

*Scarus trispinosus* Val., 1840: 182 (Brazil); Bauchot and Guibé (1963) regarded the 760mm dried holotype, MNHN B.2041, believed to be from Brazil as unidentifiable.



## UNAVAILABLE SPECIES NAMES

- Anarchicas fusellus* Nardo (ex Chierighini), 1847: col. 115 *nomen nudum*; in synonymy of *Labrus giofredi* Risso.
- Callyodon ikan* Montrouzier, 1857: 469 *nomen nudum*, in synonymy of *Labroides dimidiatus* (Valenciennes) (Fowler, 1928: 331).
- Cheilinus aspersus* Kittlitz, 1858: 113 *nomen nudum*, (Lagunor, Micronesia); mentioned by Fowler (1928: 359) under *C. bimaculatus*.
- Cheilinus macrocheilus* Kuhl & van Hasselt, in Cuvier & Valenciennes, 1839: 311 *nomen nudum*; in synonymy of *Tautoga melapterus*.
- Cheilinus reticulatus* Kittlitz, 1858: 113 *nomen nudum*, (Lagunor, Micronesia); mentioned by Fowler (1928: 359) under *C. bimaculatus*.
- Cheilinus signatus* Kittlitz, 1858: 113 *nomen nudum*, (Lagunor, Micronesia); mentioned by Fowler (1928: 359) under *C. bimaculatus*.
- Cheilinus taeniatus* Lacepède, 1802; not found in Lacepède; Smith (1957a: 110) stated: "recorded by Wuitner (1936) from Mauritius. Name that can not be traced."
- Chelinus cheilio* Commerson in Lacepède, 1802: 433; appeared in footnote in the account of *Cheilio auratus*; not available (Eschmeyer et al., 1996).
- Coricus rostratus* var. *punctulatus* Nardo, 1860: 801 *nomen nudum*.
- Coryphaena lineata* Linnaeus, 1758: 448 (Carolina, U.S.A.); Part of description, not a genus and species; it may date to Müller 1776 (Eschmeyer et al, 1997).
- Cossyphus albomaculatus* Gudger, 1929: 517, *nomen nudum*.
- Cossyphus cerulaeus* Johnston, 1891: 35 *nomen nudum*; in synonymy of *Notolabrus tetricus* (Richardson) (Russell, 1988).
- Cossyphus terophorus* Bleeker in Sauvage, 1891: 524 *nomen nudum*; listed in Fishes of Madagascar (Sauvage, 1891) but not treated; Smith (1957a) wrote "...a name that cannot be traced." Perhaps an error for *Cossyphus zosterophorus* Bleeker.
- Crenilabrus elegans* Kuhl & van Hasselt in Cuvier & Valenciennes, 1839: 130 *nomen nudum*; in synonymy of *Cossyphus mesothorax* (Bloch & Schneider, 1801).
- Crenilabrus elegans* DeKay, 1840: 11 (New York, U.S.A.) *nomen nudum*.
- Crenilabrus geoffroyi* var. *variegatus* Risso in Bonaparte, 1846: 84 *nomen nudum*; manuscript name in synonymy of *Crenilabrus roissali* Risso. In his Catalog of fishes, Bonaparte (1846) listed several varieties of labrid fishes from a Risso manuscript. Most of them correspond to the varieties described but not named in the "Histoire naturelle des principales productions de l'Europe meridionale..." (Risso, 1827). The name *variegatus* applies to the description of *Crenilabrus geoffroi* var. I Risso (1827: 315).
- Crenilabrus grassmultra* Nilsson in Bonaparte, 1846: 85 *nomen nudum*; name in synonymy of *Centrolabrus exoletus*.
- Crenilabrus hudsonicus* DeKay, 1840: 11 (New York, U.S.A.); *nomen nudum*.
- Crenilabrus lapina* var. *fasciatus* Risso in Bonaparte, 1846: 83 *nomen nudum*; manuscript name in synonymy of *Crenilabrus mediterraneus* Val.; based on *Crenilabrus lapina* var. I Risso (1827: 314).
- Crenilabrus lapina* var. *unicolor* Risso in Bonaparte, 1846: 83 *nomen nudum*; manuscript name in synonymy of *Crenilabrus mediterraneus* Val.; based on *Crenilabrus lapina* var. II Risso (1827: 314).
- Crenilabrus melops* var. *lugubris* Risso in Bonaparte, 1846: 83, *nomen nudum*; in synonymy of *Symphodus melops*; based on *Crenilabrus melops* var. I (Risso, 1827: 310).
- Crenilabrus melops* var. *superbus* Risso in Bonaparte, 1846: 83 *nomen nudum*; in synonymy of *Symphodus melops*; based on *Crenilabrus melops* var. II (Risso, 1827: 310).
- Crenilabrus massiliensis* var. *tricolor* Risso in Bonaparte, 1843: 85, *nomen nudum*; manuscript name in synonymy of *Acantholabrus palloni*. Name refers to *Crenilabrus massiliensis* var. I described by Risso (1827: 310).
- Crenilabrus tigrinus* var. *rubiginosus* Risso in Bonaparte, 1846: 84, *nomen nudum*; manuscript name in synonymy of *Crenilabrus roissali* Risso.
- Crenilabrus tigrinus* var. *semimaculatus* Risso in Bonaparte, 1846: 84 *nomen nudum*; manuscript name in synonymy of *Crenilabrus roissali* Risso.
- Crenilabrus xanthomelanus* Cocco in Bonaparte, 1846: 84, *nomen nudum*; in synonymy of *Crenilabrus melanocercus* Risso.
- Elops fuscus* Commerson in Cuv. & Val., 1840: 25, *nomen nudum*; name mentioned under *Gomphosus fuscus*.
- Epibulus aureus* Bleeker (ex Kuhl & van Hasselt), 1862f: 75, *nomen nudum*; in synonymy of *Epibulus insidiator*.
- Julis granatinus* Bleeker (ex Kuhl & van Hasselt), 1862f: 115 *nomen nudum*; in synonymy of *Halichoeres poecila*.
- Julis giofredi* var. *argentata* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis giofredi* Risso and based on *Julis giofredi* var. I (Risso, 1827: 310).
- Julis giofredi* var. *fuscoviolacea* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis giofredi* Risso and based on *Julis giofredi* var. II (Risso, 1827: 310).
- Julis leucostictus* Bleeker, 1862f: 134, *nomen nudum*; in synonymy of *Stethojulis phekadopleura*.
- Julis mediterranea* var. *pallidula* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis mediterranea* Risso.
- Julis mediterranea* var. *viridula* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis mediterranea* Risso and based on *Julis mediterranea* var. I (Risso, 1827: 310).
- Julis melanops* Reinwardt in Bleeker, 1862f: 145, *nomen nudum*; in synonymy of *Novaculichthys taeniurus*.
- Julis metager* Tickell in Day, 1888: 802, *nomen nudum*; mentioned under *Platy glossus metager* Day 1888.
- Julis perlatus* Bleeker, 1862f: 124 *nomen nudum*; in synonymy of *Halichoeres guttatus*.
- Julis speciosus* var. *unicolor* Risso in Bonaparte, 1846: 86, *nomen nudum*, in synonymy of *Julis speciosa* Risso.
- Labrichthys affinis* Döderlein in Steindachner & Döderlein, 1887: 272, *nomen nudum*; in synonymy of *Labrus rubiginosus* Temminck & Schlegel.
- Labrichthys ceruleus* Saville-Kent, 1888: 47, *nomen nudum*; in synonymy of *Notolabrus tetricus* (Richardson) (Russell, 1988).
- Labroides asellinus* Richardson, 1843c: 426, *nomen nudum*.
- Labrus arilca* Richardson, 1848: 131, pl. 55, figs. 5-7 (Australia); not available (Eschmeyer et al., 1997: 139).
- Labrus choirodon* Kuhl & van Hasselt in Bleeker, 1862f: 162, *nomen nudum*; in synonymy of *Choerops macrodon*.
- Labrus coccineus* Forster in Bloch & Schneider, 1801: 264, *nomen nudum*; in synonymy of *Labrus miles* Forster.
- Labrus cyprinaceus* White, 1790: 264, pl.50, (Australia) *nomen nudum*; in synonymy of *Notolabrus gymnogenis* (Günther) Russell (1988).
- Labrus cyprinoides* Labillardière, 1800: 419, *nomen nudum*; in synonymy of *Notolabrus parilus* (Richardson) (Russell, 1988).
- Labrus erythrogaster* Solander in Cuvier & Valenciennes, 1839: 447, *nomen nudum*; name mentioned in the account of *Julis erythrogaster* Valenciennes.
- Labrus foetidus* Nardo (ex Chierighini) 1847: col. 123, *nomen nudum*; in synonymy of *Symphodus tinca* (Linnaeus).
- Labrus formosus* Solander in Lay & Bennett 1839: 66, *nomen nudum*.
- Labrus hemichrysus* Commerson in Lacepède, 1801: 473, *nomen nudum*; listed in synonymy of *Labrus semiruber* Lacepède.
- Labrus lorius* Parkinson in Cuvier & Valenciennes, 1839: 412, *nomen nudum*; mentioned under account of *Julis lunaris*.



*Labrus lutescens* Bennett, 1832c: 184, *nomen nudum*; in synonymy of *Julis porphyrocephala*.  
*Labrus lutescens* Solander in Richardson, 1846: 260, *nomen nudum*; in synonymy of *Julis lunaris*.  
*Labrus lutiolus* Nardo (ex Chiareghini) 1847: col. 123, *nomen nudum*; in synonymy of *Coricus rostratus* Günther, 1862: 193.  
*Labrus nasutus* Günther, 1862: 193, *nomen nudum*; name on specimen from Tahiti mentioned under *Gomphosus varius*.  
*Labrus nellus* Nardo (ex Chiareghini) 1847: col. 123, *nomen nudum*; in synonymy of *Acantholabrus palloni* Risso, 1810.  
*Labrus orientalis* Hasselquist, 1762: 394; not available, published in a rejected work (International Commission Zoological Nomenclature, Opinion 57).  
*Labrus pavo* var. *elegantissimus* Risso in Bonaparte, 1846: 82 *nomen nudum*; in synonymy of *Labrus mixtus*; name refers to *Labrus pavo* var. I (Risso, 1827:310).  
*Labrus ornatus* Solander in Cuvier and Valenciennes, 1839: 412 *nomen nudum*; mentioned under account of *Julis lunaris*.  
*Labrus papagalus* Nardo (ex Chiareghini) 1847: col. 123, *nomen nudum*; in synonymy of *Labrus viridis* Linnaeus.  
*Labrus radiatus* Hemprich & Ehrenberg, 1899: 8, *nomen nudum*; name mentioned in synonymy of, and preoccupied by, *Labrus radiatus* Linnaeus 1758.  
*Labrus sachettus* Forsskål, 1775: xix, *nomen nudum*.  
*Labrus saxatilis* var. *immaculatus* Risso in Bonaparte, 1846: 82, *nomen nudum*; mentioned in synonymy of *Labrus viridis*.  
*Labrus scapularis* Bleeker, 1862f: 142, *nomen nudum*; in synonymy of *Hemigymnus melapterus*.  
*Labrus scaruscretic* Forsskål, 1775: xix, *nomen nudum*.  
*Labrus scarusvarius* Forsskål, 1775: xix, *nomen nudum*.  
*Labrus verdutius* Nardo (ex Chiareghini) 1847: col. 123, *nomen nudum*; listed as synonym of *Symphodus tinca* (Linnaeus).  
*Labrus vittatus* Forster, in Cuvier and Valenciennes, 1840: 445 *nomen nudum*; mentioned in account of *Julis cyanogaster*.

*Novacula plinii* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Xyrichtys novacula*.  
*Pseudoscarus schlegeli* Steindachner, in Steindachner & Döderlein, 1887: 277 *nomen nudum*; mentioned in passing under *Pseudoscarus ovifrons*.  
*Scarus brachyvarius* Longley in Longley & Hildebrand, 1941: 212, *nomen nudum*; manuscript name of Poey; in synonymy of *Sparisoma rubripinne* (Randall, 1990).  
*Scarus coerulescens* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus erythrogyne* Bleeker (ex Kuhl & van Hasselt), 1862: 32 *nomen nudum*; in synonymy of *Pseudoscarus nuchipunctatus*.  
*Scarus gibbosus* Kuhl & van Hasselt, in Cuvier & Valenciennes, 1840: 208 *nomen nudum*; in synonymy of *Scarus muricatus*.  
*Scarus harith* Ehrenberg, in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus lividus* Bleeker (ex Kuhl & van Hasselt), 1862: 40, *nomen nudum*; in synonymy of *Pseudoscarus aeruginosus* 1.  
*Scarus nigricans* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus obscurus* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus ruber* Bleeker (ex Kuhl & van Hasselt), 1862: 37, *nomen nudum*; in synonymy of *Pseudoscarus rubroviolaceus*.  
*Scarus rubronotatus* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus rurk* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus viridis* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.  
*Scarus viridis* Ehrenberg, in Cuvier & Valenciennes, 1839: 231, *nomen nudum*; mentioned in account of *Scarus gibbus*.  
*Scarus wurk* Ehrenberg in Cuvier & Valenciennes, 1840: 246 *nomen nudum*; mentioned in account of *Scarus mastax*.  
*Sparus prasiophthalmus* Richardson (ex Solander), 1843: 24 *nomen nudum*; mentioned in account of *Julis celidotus*.



**Table. List of nominal species of Labridae and Scaridae and their present allocations. New synonyms are indicated by an asterisk (\*).**

**Nominal Species: Present Allocation**

**LABRIDAE**

- Julis abhortani* Val., 1839: *Thalassoma trilobatum*  
*Cheilinus abudjubbe* Rüppell, 1835: *Cheilinus abudjubbe*  
*Labrus acatirostreus* Nardo, 1824: *Symphodus rostratus*  
*Ctenolabrus acutus* Val., 1839: *Ctenolabrus rupestris*  
*Julis adelaidensis* Castelnau, 1875: *Ophthalmolepis lineolatus*  
*Cirrhilabrus adornatus* Randall & Kunzmann, 1998: *C. adornatus*  
*Labrus adpersus* Walbaum, 1792: *Tautogolabrus adpersus*  
*Pseudojulis adustus* Gilbert, 1890: *Halichoeres adustus*  
*Julis aeruginosus* Val., 1839: *Thalassoma purpureum*  
*Labrus aeruginosus* Pallas, 1814: *Symphodus roissali*  
*Halichoeres aestuaricola* Bussing, 1972: *H. aestuaricola*  
*Lachnolaimus aigula* Val., 1839: *Lachnolaimus maximus*  
*Lutjanus alberti* Risso, 1810: *Symphodus roissali*  
*Choerops albigena* De Vis, 1885: *Choerodon cyanodus*  
*Wetmorella albofasciata* Schultz & Marshall, 1954:  
*Wetmorella albofasciata*  
*Thalassoma albolineum* Nichols, 1941: *T. quinquevittatum*  
*Julis albolumbata* Schmidt, 1931: *Pseudocoris bleekeri*  
*Lepidaplois albomaculatus* Smith, 1957: *Bodianus axillaris*  
*Cossyphus albotaeniatus* Val., 1839: *Bodianus bilunulatus*  
*Labrus albovittatus* Bonnaterre, 1788: *Stethojulis albovittata*  
*Lepidaplois aldabrensis* Smith, 1955: *Bodianus diana*  
*Dotalabrus alleni* Russell, 1988: *Dotalabrus alleni*  
*Labropsis alleni* Randall, 1981: *Labropsis alleni*  
*PlatyGLOSSUS alternans* Cartier, 1874: *Halichoeres scapularis*  
*Xyrichtys altipinnis* Rüppell, 1835: *Novaculichthys taeniourus*  
\* *PlatyGLOSSUS amabilis* De Vis, 1885: *Halichoeres nigrescens*  
*Choerodon ambiguus* Ogilby, 1910: *Choerodon venustus*  
*Julis amblycephalus* Bleeker, 1856: *Thalassoma amblycephalum*  
*Anampses amboinensis* Bleeker, 1857: *A. meleagrides*  
*Duymaeria amboinensis* Bleeker, 1856: *Pteragogus enneacanthus*  
*Julis amboinensis* Bleeker, 1856: *Halichoeres solorensis*  
*Labrus americanus* Bloch & Schneider, 1801: *Tautoga onitis*  
*Sparus anchorago* Bloch, 1791: *Choerodon anchorago*  
*Julis aneitensis* Günther, 1862: *Thalassoma lutescens*  
*Novacula aneitensis* Günther, 1862: *Xyrichtys aneitensis*  
*Coris angulatus* Lacepède, 1801: *Coris aygula*  
*Paracheilinus angulatus* Randall & Lubbock, 1981: *P. angulatus*  
*Eupetrichthys angustipes* Ramsay & Ogilby, 1888: *E. angustipes*  
*Julis annularis* Val., 1839: *Halichoeres marginatus*  
*Halichoeres annulatus* Fowler, 1904: *Halichoeres miniatus*  
\* *Julis annulatus* Val., 1839: *Hologymnosus doliatus*  
*Labrus annulatus* Lacepède, 1801: *Hologymnosus annulatus*  
*Crenilabrus anthioides* Bennett, 1832: *Bodianus anthioides*  
*Labrus aper* Retzius, 1800: *Labrus bergylta*  
*Labrus aper* Val., 1846: *Semicossyphus darwini*  
*Conniella apterygia* Allen, 1983: *Conniella apterygia*  
*Macropharyngodon aquilolo* Jenkins, 1901: *M. geoffroy*  
*Trichopus arabicus* Shaw, 1803: *Thalassoma lunare*  
*Labrus arago* Quoy & Gaimard, 1824: *N. macrolepidotus*  
*Julis aran* Montrouzier, 1856: *Thalassoma trilobatum*  
*Crenilabrus arcuatus* Risso, 1827: *Symphodus roissali*  
*Cheilinus arenatus* Val., 1840: *Oxycheilinus arenatus*  
*Coris argenteostriata* Steindachner, 1900: *Coris ballieui*  
*Crenilabrus argenteostriatus* Nordmann, 1840:  
*Symphodus ocellatus*  
*Xyrichtys argentimaculata* Steindachner, 1861: *X. novacula*  
*Labrus argus* Bloch & Schneider, 1801: *Halichoeres argus*  
*Pseudojulis argyreogaster* Playfair & Günther, 1867:  
*Pseudojuloides argyreogaster*  
*Suezichthys arquatus* Russell, 1985: *Suezichthys arquatus*  
*Labrus ascanii* Shaw, 1803: *Symphodus melops*  
*Julis ascensionis* Quoy & Gaimard, 1834:  
*Thalassoma ascensionis*  
*Pseudocheilinus ataenia* Schultz, 1960: *P. ataenia*  
*Pseudojuloides atavai* Randall & Randall, 1981: *P. atavai*  
*Coris atlantica* Günther, 1862: *Coris atlantica*  
*Cossyphus atrolumbus* Val., 1839: *Bodianus perditio*  
*Lepidaplois atrorubens* Jordan [EK], 1925: *Bodianus bilunulatus*  
*Paracheilinus attenuatus* Randall, 1999: *P. attenuatus*  
*Cheilinus aurantiacus* Castelnau, 1872: *Dotalabrus aurantiacus*  
*Crenilabrus aurantiacus* Cocco in Facciola, 1885?:  
*Symphodus ocellatus*  
*Crenilabrus aurantiacus* Facciola, 1888: *Lappanella fasciata*  
*Cirrhilabrus aurantidorsalis* Allen & Kuitert, 1998:  
*Cirrhilabrus aurantidorsalis*  
*Pseudocoris aurantiofasciatus* Fourmanoir, 1971:  
*Pseudocoris aurantiofasciata*  
*Cheilio auratus* Lacepède, 1802: *Cheilio inermis*  
*Labrus aureomaculatus* Bennett [JW], 1830: *Coris aygula*  
*Julis auricularis* Val., 1839: *Coris auricularis*  
*Cossyphus aurifer* De Vis, 1884: *Bodianus perditio*  
*Ctenolabrus aurigarius* Richardson, 1845:  
*Pteragogus aurigarius*  
*Coris aurilineata* Randall & Kuitert, 1982: *Coris aurilineata*  
\* *Julis auritus* Val., 1839: *Halichoeres trimaculatus*  
*Labrichthys australis* Steindachner, 1866:  
*Pseudolabrus guentheri*  
*Labropsis australis* Randall, 1981: *Labropsis australis*  
*Torresia australis* Castelnau, 1875: *Choerodon schoenleinii*  
*Julis awayae* Schmidt, 1931: *Pseudocoris yamashiroi*  
*Cossyphus axillaris* Val., 1839: *Bodianus axillaris*  
*Julis axillaris* Quoy & Gaimard, 1824: *Stethojulis balteata*  
*Labrus axillaris* Bennett, 1832: *Bodianus axillaris*  
*Coris aygula* Lacepède, 1801: *Coris aygula*  
*Suezichthys aylingi* Russell, 1985: *Suezichthys aylingi*  
*Julis azorensis* Fowler, 1919: *Coris julis*  
*Choerops azurio* Jordan & Snyder, 1901: *Choerodon azurio*  
\* *Labrus baccatus* de Procé 1822: *Halichoeres nigrescens*  
*Labrus badius* Walbaum 1792: *Labrus mixtus*  
*Platychoerops badius* Ogilby, 1893: *Achoerodus gouldii*  
*Crenilabrus bailloni* Val., 1839: *Symphodus bailloni*  
*Labrus balanus* Fleming, 1828: *Labrus bergylta*  
*Hemipteronotus baldwini* Jordan & Evermann, 1903:  
*Xyrichtys baldwini*  
*Choerodon balerensis* Herre, 1950: *Choerodon fasciatus*  
*Labrus ballan* Bonnaterre, 1788: *Labrus bergylta*  
*Labrus ballan* Walbaum 1792: *Labrus bergylta*  
*Labrus ballanus* Shaw, 1803: *Labrus bergylta*  
*Coris ballieui* Vaillant & Sauvage, 1875: *Coris ballieui*  
*Julis ballieui* Vaillant & Sauvage, 1875: *Thalassoma ballieui*  
*Cirrhilabrus balteatus* Randall, 1988: *Cirrhilabrus balteatus*  
*Julis balteatus* Quoy & Gaimard, 1824: *Stethojulis balteata*  
*Julis bandanensis* Bleeker, 1851: *Stethojulis bandanensis*  
*Iridio bathyphilus* Beebe & Tee-Van, 1932: *Halichoeres bathyphilus*  
*Julis batuensis* Bleeker, 1856: *Coris batuensis*  
*Sparus batus* Perry, 1811: *Cheilinus fasciatus*  
*Paracheilinus bellae* Randall, 1988: *Paracheilinus bellae*  
*Cossyphus bellis* Ramsay & Ogilby, 1887: *Bodianus unimaculatus*  
*Julis beraber* Montrouzier, 1857: *Hemigymnus melapterus*  
*Thalassoma berendti* Seale, 1901: *Thalassoma purpureum*  
*Labrus bergsnylthrus* Lacepède, 1801: *Ctenolabrus rupestris*  
*Labrus bergylta* Ascanius, 1767: *Labrus bergylta*  
*Crenilabrus bertini* Pras, 1961: *Symphodus ocellatus*  
*Julis bicatenatus* Bennett, 1832: *Thalassoma trilobatum*



- Labroides bicincta* Saville-Kent, 1893: *Labroides dimidiatus*  
*Cheilio bicolor* Bianconi, 1857: *Cheilio inermis*  
*Cossyphus bicolor* Liénard in Sauvage, 1891: *Bodianus anthioides*  
*Julis bicolor* Günther, 1862: *Thalassoma genivittatum*
- \* *Labrichthys bicolor* Day, 1871: *Hemigymnus melapterus*  
*Labroides bicolor* Fowler & Bean, 1928: *Labroides bicolor*  
*Labrus bicolor* Bloch & Schneider, 1801: *Halichoeres bicolor*  
*Labrus bidens* Nardo, 1924: *Symphodus mediterraneus*  
*Lutjanus bidens* Bloch, 1790: *Symphodus mediterraneus*  
*Cheilinus bifasciatus* Bleeker, 1871: *Oxycheilinus bimaculatus*  
*Labrus bifasciatus* Bloch, 1791: *Thalassoma bifasciatum*  
*Labrus bifasciatus* var *torquatus* Bloch & Schneider, 1801:  
*Thalassoma bifasciatum*  
*PlatyGLOSSUS bifasciatus* Steindachner, 1866: *Halichoeres bicolor*  
*Julis bifer* Lay & Bennett, 1839: *Novaculichthys taeniourus*  
*Suezichthys bifurcatus* Russell, 1986: *Suezichthys bifurcatus*  
*Thalassoma bilateralis* von Bonde, 1934: *Hemigymnus fasciatus*  
*PlatyGLOSSUS bilineatus* Karoli, 1882: *Halichoeres bicolor*  
*Labrus bilunulatus* Lacepède, 1801: *Bodianus bilunulatus*  
*Iridio bimaculata* Wilson, 1916: *Halichoeres aestuaricola*  
*Bodianus bimaculatus* Allen, 1973: *Bodianus bimaculatus*  
*Cheilinus bimaculatus* Val., 1840: *Oxycheilinus bimaculatus*  
*Halichoeres bimaculatus* Rüppell, 1835: *H. zeylonicus*  
*Leptojulis bimaculatus* Kner & Steindachner, 1867:  
*nomen dubium*  
*Xyrichtys bimaculatus* Rüppell, 1829: *Xyrichtys bimaculatus*  
*Xyrichtys binghami* Mowbray, 1925: *Xyrichtys novacula*  
*Julis binotopsis* Bleeker, 1849: *Halichoeres binotopsis*  
*Halichoeres biocellatus* Schultz, 1960: *H. biocellatus*  
*Macropharyngodon bipartitus* Smith, 1957: *M. bipartitus*  
*Macropharyngodon bipartitus marisrubri* Randall, 1978:  
*M. bipartitus*  
*Labrichthys biserialis* Klunzinger, 1880: *Pseudolabrus biserialis*  
*Cheilopsis bivittatus* Steindachner, 1863: *Bodianus opercularis*  
*Labrus bivittatus* Bloch, 1791: *Halichoeres bivittatus*  
*Novaculichthys blanchardi* Cadenat & Marchal, 1963:  
*Xyrichtys blanchardi*  
*Cirrhalabrus blatteus* Springer & Randall, 1974: *C. blatteus*  
*Hemigymnus bleasdalei* Castelnau, 1875: *Pictilabrus laticlavus*  
*Coris bleekeri* Hubrecht, 1876: *Pseudocoris bleekeri*  
*Halichoeres bleekeri* Günther, 1861: *Halichoeres chloropterus*  
*Labrichthys bleekeri* Castelnau, 1872: *Notolabrus tetricus*  
*PlatyGLOSSUS bleekeri* Steindachner & Döderlein, 1887:  
*Halichoeres bleekeri*  
*Bodianus blochii* Lacepède, 1802: *Bodianus rufus*
- \* *Cheilinus blochii* Val., 1840: *Cheilinus chlorourus*  
*Julis blochii* Val., 1839: *Thalassoma hebraicum*  
*Thalliurus blochii* Swainson, 1839: *Cheilinus chlorourus*  
*Bodianus bodianus* Bloch, 1790: *Bodianus rufus*  
*Doratonotus boekei* Metzelaar, 1919: *D. megalepis*  
*Odax borbonicus* Val., 1840: *Pseudodax moluccanus*  
*Crenilabrus boryanensis* Risso, 1827: *Symphodus mediterraneus*  
*Julis boryii* Lesson, 1831: *Hemigymnus melapterus*  
*Labrichthys bostockii* Castelnau, 1873: *Notolabrus parilus*  
*Labrus botryocismus* Richardson, 1846: *Notolabrus celidotus*  
*Lepidaplois bourboni* Fourmanoir & Guézé, 1961:  
*Bodianus leucosticticus*  
*Cossyphus boutoni* Liénard in Sauvage, 1891:  
*Bodianus anthioides*  
*Sparus brachiatus* Shaw, 1803: *Thalassoma trilobatum*  
*Sparus brachion* Lacepède, 1802: *Novaculichthys taeniourus*
- \* *Bodianus brachyrhynchus* Mira-Ribeiro, 1918: *Bodianus rufus*  
*Coricus brama* Nordmann, 1840: *Symphodus rostratus*  
*Ctenolabrus brandaonis* Steindachner, 1867:  
*Tautogolabrus brandaonis*  
*Labrus brasiliensis* Bloch, 1791: *Halichoeres radiatus*  
*Pictilabrus brauni* Hutchins & Morrison, 1996: *P. brauni*  
*Choerops brenchleyi* Günther, 1872: *Choerodon zosterophorus*  
*Choerophilus brownfieldi* Whitley, 1945: *Halichoeres brownfieldi*  
*Lutjanus brunnichii* Lacepède, 1802: *Symphodus mediterraneus*  
*Coris bulbifrons* Randall & Kuiter, 1982: *Coris bulbifrons*  
*Labrus burgall* Schöpf, 1788?: *Tautogolabrus adspersus*  
*Iniistius cactus* Waite, 1901: *Xyrichtys pavo*  
*Tautoga caerulea* Mitchell, 1814: *Tautogolabrus adspersus*  
*Harpe caeruleo-aureus* Lacepède, 1802: *Bodianus rufus*  
*Julis caeruleocephalus* Cuvier, 1829: *Thalassoma duperrey*  
*Labroides caeruleolineatus* Fowler, 1945: *Labroides dimidiatus*  
*Duymaeria caeruleomaculata* Günther, 1862:  
*Pteragogus flagellifer*  
*Thalassoma caeruleomarginata* Fowler, 1944: *T. lucasanum*  
*Anampses caeruleopunctatus* Rüppell, 1829:  
*Anampses caeruleopunctatus*  
*Hemipteronotus caeruleopunctatus* Yu, 1968: *Xyrichtys verrens*  
*Halichoeres caeruleovittatus* Rüppell, 1835: *H. scapularis*  
*Centrolabrus caeruleus* Azevedo, 1999: *C. caeruleus*  
*Crenilabrus caeruleus* Risso, 1827: *Symphodus melanocercus*  
*Frontilabrus caeruleus* Randall & Condé, 1989: *F. caeruleus*  
*Gomphosus caeruleus klunzingeri* Klausewitz, 1962:  
*Gomphosus caeruleus*  
*Gomphosus caeruleus* Lacepède, 1801: *G. caeruleus*  
*Halichoeres californicus* Günther, 1861: *Oxyjulis californica*  
*Labrus calophthalmus* Rafinesque 1810?: *Symphodus tinca*
- \* *Cheilinus calophthalmus* Playfair & Günther, 1867:  
*Cheilinus oxycephalus*  
*Crenilabrus caninus* Lowe, 1839: *Bodianus scrofa*  
*Lachnolaimus caninus* Cuvier, 1829: *Lachnolaimus maximus*
- \* *Trochocopus canis* Philippi, 1887: *Semicossyphus darwini*  
*Julis cantori* Bleeker, 1861: *Halichoeres bicolor*  
*Labrus capistratus* Pallas, 1814: *Symphodus roissali*  
*Novacula carneoflava* Peters, 1877: *Xyrichtys pavo*  
*Labrus carneus* Ascanius, 1772: *Labrus mixtus*  
*Labrus carolinus* Bonnat, 1788: *Tautoga onitis*  
*Paracheilinus carpenteri* Randall & Lubbock, 1981:  
*Paracheilinus carpenteri*  
*Sparus carudse* Lacepède, 1802: *Ctenolabrus rupestris*  
*Chaerophilus castaneus* Kner & Steindachner, 1867:  
*Labrichthys unilineatus*  
*Julis casturi* Bleeker, 1852: *Stethojulis trilineata*  
*Stethojulis casturi* Günther, 1881: *Stethojulis trilineata*  
*Julis caudalis* Poey, 1860: *Halichoeres caudalis*  
*Labrichthys caudavittatus* Steindachner, 1898:  
*Suezichthys caudavittatus*  
*Julis caudimacula* Quoy & Gaimard, 1834: *Coris caudimacula*  
*Choerodon cauteroma* Gomon & Allen, 1987: *C. cauteroma*  
*Novacula celebica* Bleeker, 1856: *Xyrichtys celebicus*  
*Cheilinus celebicus* Bleeker, 1853: *Oxycheilinus celebicus*  
*Julis (Julis) celebicus* Bleeker, 1855: *Thalassoma lunare*  
*Labrus celidotus* Bloch & Schneider, 1801: *Notolabrus celidotus*  
*Labrus centiquadrus* Lacepède, 1801: *Halichoeres hortulanus*  
*Coris centralis* Randall, 1999: *Coris centralis*  
*Gomphosus cepedianus* Val., 1840: *Gomphosus varius*  
*Novacula cephalotaenia* Bleeker, 1854:  
*Novaculichthys taeniourus*  
*Chaerops cephalotes* Castelnau, 1875: *Choerodon cephalotes*  
*Cheilinus ceramensis* Bleeker, 1852: *Oxycheilinus bimaculatus*  
*Pseudojulis cerasina* Snyder, 1904: *Pseudojuloides cerasinus*  
*Labrichthys ceruleus* Saville-Kent, 1897: *Notolabrus tetricus*  
*Labrus cettii* Rafinesque 1810: *Coris julis*  
*Crenilabrus chabroliei* Lesson, 1830: *Bodianus macrourus*  
*Halichoeres chierchiae* Caporiacco, 1947: *H. chierchiae*  
*Labrus chinensis* Linnaeus 1758: *Centrolabrus exoletus*  
*Halichoeres chlorocephalus* Kuiter & Randall, 1995:  
*Halichoeres chlorocephalus*  
*Labrus chlorocephalus* Bloch & Schneider 1801:  
*Stethojulis interrupta*  
*Labrus chlorodus* Gray, 1854: *Choerodon anchorago*  
*Labrus chlorophthalmus* Rafinesque 1810?: *Symphodus tinca*  
*Labrus chloropterus* Bloch, 1791: *Halichoeres chloropterus*
- \* *Lutjanus chlorosochrus* Risso, 1810: *Symphodus mediterraneus*  
*Anampses chlorostigma* Val., 1840: *A. caeruleopunctatus*



- Sparus chlorourus* Bloch, 1791: *Cheilinus chlorourus*  
*Macropharyngodon choati* Randall, 1978: *M. choati*  
*Labrus chogset* Mitchell, 1815: *Tautogolabrus adpersus*  
*Labrus chogset var fulva* Mitchell, 1815: *Tautogolabrus adpersus*  
*Anampses chrysocephalus* Randall, 1958: *A. chrysocephalus*  
*Crenilabrus chrysophrys* Risso, 1827: *nomen dubium*  
*Labrus chrysostoma* Rafinesque 1810?: *Symphodus tinca*  
*Julis chrysotaenia* Bleeker, 1853: *Halichoeres melanurus*  
*LeptoJulis chrysotaenia* Randall & Ferraris, 1981:  
*LeptoJulis chrysotaenia*  
*Halichoeres chrysus* Randall, 1981: *Halichoeres chrysus*  
*Labrichthys cincta* Hutton, 1877: *Notolabrus cinctus*  
*Julis cinctus* Poey, 1860: *Halichoeres garnoti*  
*Labrus cinereus* Bonnaterre, 1788: *Symphodus cinereus*  
*Labrus cinereus* Pallas, 1814: *Ctenolabrus rupestris*  
*Julis cingulata* Quoy & Gaimard, 1834: *Thalassoma hebraicum*  
*Cheilinus cingulatus* Weber, 1913: *Oxycheilinus unifasciatus*  
*Labrus cingulum* Lacepède, 1801: *Coris aygula*  
*Labrus citrinus* Walbaum 1792: *nomen dubium*  
*Pseudocheilinus citrinus* Randall, 1999: *P. citrinus*  
*Sparus clavigera* Lacepède, 1802: *Labrus mixtus*  
*Julis clepsydralis* Smith & Swain, 1882: *Thalassoma duperrey*  
*Cheilinus coccineus* Rüppell, 1828: *Oxycheilinus digramma*  
*Labrus coeruleus* Ascanius, 1772: *Labrus mixtus*  
*Halichoeres coeruleo-vittatus* Rüppell, 1835: *H. scapularis*  
*Labrus coeruleovittatus* Bonnaterre, 1788:  
*Symphodus mediterraneus*  
*Labrus comber* Bonnaterre, 1788: *Labrus bergylta*  
*Labrus comber* Gmelin, 1789: *Labrus bergylta*  
*Labrus comber* Walbaum, 1792: *Labrus bergylta*  
*Cheilinus commersoni* Bennett, 1832: *Oxycheilinus digramma*  
*Julis commersoni* Val., 1839: *Thalassoma genivittatum*  
*Choerops concolor* De Vis, 1885?: *Choerodon cyanodus*  
*Cirrhitlabrus condei* Allen & Randall, 1996: *C. condei*  
*Labrichthys convexus* Castelnau, 1875: *Notolabrus parilus*  
*Labrus cook* Bloch & Schneider 1801: *Labrus mixtus*  
*Hemipteronotus copei* Fowler, 1901: *Xyrichtys novacula*  
*Labrus coquus* Gmelin, 1789: *Labrus mixtus*  
*Labrus coquus* Walbaum, 1792: *Labrus mixtus*  
*Julis corbis* Val., 1839: *Halichoeres hortulanus*  
*Labrus cordelicus* Bloch & Schneider 1801: *nomen dubium*  
*Lutianus core* Nardo, 1827?: *Symphodus cinereus*  
*Julis coris* Lesson, 1828: *Thalassoma quinquevittatum*  
*Julis coris* Val., 1839: *Coris aygula*  
*Lutjanus cornubicus* Risso, 1810: *Symphodus cinereus*  
*Labrus cornubius* Gmelin, 1789?: *Symphodus melops*  
*Coris coronata* De Vis, 1885: *Coris batuensis*  
*Novacula coryphaenoides* Schinz in Cuvier, 1822:  
*Xyrichtys novacula*  
*Novacula coryphena* Risso, 1827: *Xyrichtys novacula*  
*Halichoeres cosmetus* Randall & Smith, 1982: *H. cosmetus*  
*Pseudolabrus cossyphoides* Steindachner, 1900: *P. miles*  
*Lutjanus cotta* Risso, 1810: *Symphodus cinereus*  
*Acantholabrus couchii* Val., 1839: *Acantholabrus palloni*  
*Crenilabrus couchii* Val., 1839: *Symphodus melops*  
*Labrichthys cousteau* Estève, 1955: *Larabicus quadrilineatus*  
*Thalassoma cranei* Herre, 1935: *Thalassoma lutescens*  
*Chaerops crassus* Castelnau, 1875: *Choerodon cyanodus*  
*Labrus crassus* Agassiz, 1831?: *Labrus merula*  
*Crenilabrus croceus* Lesson, 1828: *Bodianus macrourus*  
*Choerophilus crotaphus* Poey, 1860: *Halichoeres poeyi*  
*Julis crotaphus* Cuvier, 1829: *Halichoeres radiatus*  
*Labrichthys cruentatus* De Vis, 1885: *Pseudolabrus guentheri*  
*Polylepion cruentum* Gomon, 1977: *Polylepion cruentum*  
*Pteragogus cryptus* Randall, 1981: *Pteragogus cryptus*  
*Xyrichtys cultratus* Val., 1840: *Xyrichtys novacula*  
*Julis cupido* Tem. & Sch., 1845: *Thalassoma cupido*  
\* *Thalassoma cupido bipunctatum* Vasiliu, 1931: *T. lunare*  
*Anampses cuvier* Quoy & Gaimard, 1824: *Anampses cuvier*  
*Julis cuvieri* Bennett, 1831: *Coris cuvieri*  
*Julis cuvieri* Bleeker, 1847: *Halichoeres chloropterus*  
*Labrichthys cuvieri* Castelnau, 1873: *Notolabrus tetricus*  
*Coris cyanea* Macleay, 1883: *Coris aygula*  
*Paracheilinus cyaneus* Kuitert & Allen, 1999: *P. cyaneus*  
*Xyrichtys cyanifrons* Val., 1840: *Xyrichtys cyanifrons*  
*Xirichthys cyanirostris* Guerin-Meneville 1829-38:  
*Xyrichtys pentadactylus*  
*Labrus cyanocephalus* Bloch, 1791: *Halichoeres cyanocephalus*  
*Cheilio cyanochloris* Val., 1839: *Cheilio inermis*  
*Labrus cyanodus* Richardson, 1843: *Choerodon cyanodus*  
*Julis cyanogaster* Val., 1839: *Thalassoma purpureum*  
*Labrichthys cyanogenys* Ramsay & Ogilby, 1887:  
*Notolabrus tetricus*  
*Julis cyanogramma* Richardson, 1850: *Ophthalmolepis lineolatus*  
*Macropharyngodon cyanoguttatus* Randall, 1978:  
*Macropharyngodon cyanoguttatus*  
*Suezichthys cyanolaemus* Russell, 1985: *S. cyanolaemus*  
*Cheilinoidea cyanopleura* Bleeker, 1851: *C. cyanopleura*  
*Julis cyanopleura* Bleeker, 1853: *LeptoJulis cyanopleura*  
*Crenilabrus cyanospilatus* Cocco, 1840:  
*Symphodus melanocercus*  
*Julis cyanostigma* Val., 1839: *Halichoeres radiatus*  
*Cossyphus cyanostolus* Richardson, 1846:  
*Choerodon schoenleinii*  
*Labrichthys cyanotaenia* Bleeker, 1854: *Labrichthys unilineatus*  
*Julis cyanoventor* Saville-Kent, 1893?: *Thalassoma lunare*  
*Verreo cylindriatus* Tanaka, 1930: *Bodianus cylindriatus*  
*Halichoeres cymatogrammus* Jordan & Seale, 1905:  
*Halichoeres scapularis*  
*Halichoeres daedalma* Jordan & Seale, 1906: *H. margaritaceus*  
*Cossyphus darwini* Jenyns, 1842: *Semicossyphus darwini*  
\* *Platygllossus dayi* Steindachner, 1870: *Halichoeres nigrescens*  
*Xirichthys dea* Tem. & Sch., 1845: *Xyrichtys dea*  
*Coris debueni* Randall, 1999: *Coris debueni*  
*Cheilinus decacanthus* Bleeker, 1851: *Cheilinus chlorourus*  
*Iridio decoratus* Bean, 1906: *Halichoeres garnoti*  
*Doratonotus decoris* Evermann & Marsh, 1899: *D. megalepis*  
*Sparus decussatus* Bennett, 1829: *Halichoeres hortulanus*  
*Halichoeres desmogenys* Fowler & Bean, 1928: *H. vrolikii*  
*Julis detersor* Val., 1839: *Thalassoma bifasciatum*  
*Guntheria devisi* Whitley, 1941: *Suezichthys devisi*  
*Anampses diadematus* Rüppell, 1835: *A. caeruleopunctatus*  
*Labrus diana* Lacepède, 1801: *Bodianus diana*  
\* *Halichoeres dianthus* Smith, 1947: *Halichoeres nigrescens*  
*Ammolabrus dicrus* Randall & Carlson, 1997: *A. dicrus*  
*Julis dieschismenacanthoides* Bleeker, 1853:  
*Halichoeres papilionaceus*  
*Julis dieschismenacanthus* Bleeker, 1852:  
*Halichoeres papilionaceus*  
*Labrus digramma* Lacepède, 1801: *Oxycheilinus digramma*  
*Cossyphus dimidiatus* Val., 1839: *Labroides dimidiatus*  
*Julis dimidiatus* Agassiz in Spix & Agassiz, 1831:  
*Halichoeres cyanocephalus*  
*Tautoga dimidiatus* Bleeker, 1849: *Hemigymnus melapterus*  
*Harpe diplotaenia* Gill, 1862: *Bodianus diplotaenia*  
*Halichoeres discolor* Bussing, 1983: *Halichoeres discolor*  
*Platygllossus dispilus* Günther, 1864: *Halichoeres dispilus*  
*Pseudocheilinus dispilus* Randall, 1999: *P. dispilus*  
*Choerops dodecacanthus* Bleeker, 1868: *Choerodon robustus*  
*Symphodus doderleini* Jordan, 1890: *Symphodus doderleini*  
*Platygllossus doleschalli* Steindachner, 1863:  
*Halichoeres papilionaceus*  
*Labrus doliatus* Lacepède, 1801: *Hologymnosus doliatus*  
*Crenilabrus donovani* Val., 1839: *Symphodus bailloni*  
*Labrus donovani* Val., 1839: *Labrus bergylta*  
*Labrus donzella* Nardo, 1824?: *Symphodus cinereus*  
*Labrus donzella* Rafinesque 1810?: *Thalassoma pavo*  
*Julis dorsalis* Quoy & Gaimard, 1834: *Thalassoma hardwicke*  
*Labrichthys dorsalis* Macleay, 1881: *Pseudolabrus guentheri*  
*Coris dorsomacula* Fowler, 1908: *Coris dorsomacula*



- Labrus dubbius* Nardo, 1824: *Symphodus ocellatus*
- \* *Crenilabrus dubius* Gulia, 1861: *Symphodus ocellatus*
- \* *PlatyGLOSSUS dubius* Steindachner, 1866:  
*Halichoeres nigrescens*  
*Julis duperrey* Quoy & Gaimard, 1824: *Thalassoma duperrey*
- \* *Julis dussumieri* Val., 1839: *Halichoeres nigrescens*  
*Labrichthys dux* De Vis, 1883: *Pseudolabrus guentheri*  
*Lachnolaimus dux* Val., 1839: *Lachnolaimus maximus*  
*Cossyphus echis* Guichenot, 1869: *Pseudocheilinus hexataenia*  
*Cossyphus eclancheri* Val., 1846: *Bodianus eclancheri*  
*Labrichthys edelensis* Castelnau, 1873: *Notolabrus parilus*  
*Anampses elegans* Ogilby, 1889: *Anampses elegans*  
*Iridio elegans* Bean, 1906: *Halichoeres radiatus*  
*Julis elegans* Val., 1839: *Halichoeres scapularis*  
*Labrichthys elegans* Steindachner, 1883: *Dotalabrus aurantiacus*  
*Coris elongata* Günther, 1862: *Hologymnosus annulatus*  
*Pseudojuloides elongatus* Ayling & Russell, 1977: *P. elongatus*  
*Crenilabrus enneacanthus* Bleeker, 1853:  
*Pteragogus enneacanthus*  
*Labrus enneacanthus* Lacepède, 1801: *Cheilinus fasciatus*  
*Novaculichthys entargyreus* Jenkins, 1901: *N. woodi*  
*Labrus eoethinus* Richardson, 1846: *Pseudolabrus eoethinus*  
*Labrus ephippium* Val., 1839: *nomen dubium*  
*Lutianus eques* Nardo, 1827: *Symphodus ocellatus*  
*PlatyGLOSSUS equinus* De Vis, 1885:  
*Halichoeres margaritaceus*
- \* *Labrus erithrophthalmus* Walbaum 1792:  
*Symphodus mediterraneus*  
*Julis erythrogaster* Val., 1839: *Thalassoma purpureum*  
*Labrus erythrogaster* Solander in Val., 1839: *nomen nudum*  
*Lutianus erythrophthalmus* Rafinesque, 1810: *nomen dubium*  
*Pseudojuloides erythrops* Randall & Randall, 1981: *P. erythrops*  
*Julis erythropterus* Val., 1839?: *Thalassoma hardwicke*  
*Pseudocheilinus evanidus* Jordan & Evermann, 1903: *P. evanidus*  
*Anampses evermanni* Jenkins, 1901: *Anampses cuvier*  
*Hemipteronotus evides* Jordan & Richardson, 1909:  
*Xyrichtys baldwini*  
*Halichoeres eximius* Rüppell, 1835: *Halichoeres hortulanus*  
*Labrus exoletus* Linnaeus, 1758: *Centrolabrus exoletus*
- \* *Julis exornatus* Richardson, 1846: *Halichoeres nigrescens*  
*Cirrhalabrus exquisitus* Smith, 1957: *Cirrhalabrus exquisitus*  
*Coris eydouxii* Val., 1839: *Coris flavovittata*  
*Sparus falcatus* Bloch, 1791: *Bodianus rufus*  
*Cheilinus fasciatopunctatus* Steindachner, 1863: *C. trilobatus*  
*Coricus fasciatus* Cocco, 1833: *Lappanella fasciata*  
*Hologymnosus fasciatus* Lacepède, 1801: *H. doliatus*  
*Labrus fasciatus* Bloch, 1792: *Hemigymnus fasciatus*  
*Sparus fasciatus* Bloch, 1791: *Cheilinus fasciatus*  
*Xiphochilus fasciatus* Günther, 1867: *Choerodon fasciatus*  
*Anampses femininus* Randall, 1972: *Anampses femininus*  
*Neolabrus fenestratus* Steindachner, 1875: *Malapterus reticulatus*
- \* *Artisia festiva* de Beaufort, 1939: *Halichoeres tenuispinis*  
*Julis festiva* Val., 1839: *Coris julis*
- \* *Cheilinus festivus* Val., 1840: *Cheilinus trilobatus*  
*Labrus festivus* Risso, 1827: *Labrus viridis*  
*Anampses fidjensis* Sauvage, 1880: *Anampses neoguinaicus*  
*Halichoeres fijiensis* Herre, 1935: *Halichoeres argus*  
*Cirrhalabrichthys filamentosus* Klausewitz, 1976:  
*Cirrhalabrus filamentosus*  
*Cossyphus filamentosus* Peters, 1855: *Pteragogus flagellifer*  
*Paracheilinus filamentosus* Allen, 1974: *P. filamentosus*  
*Stethojulis filholi* Sauvage, 1880: *Stethojulis trilineata*  
*Julis finlaysoni* Val., 1839: *Leptojulis cyanopleura*  
*Ctenolabrus flagellifer* Val., 1839: *Pteragogus flagellifer*  
*Labrus flavescens* Bloch & Schneider 1801: *nomen dubium*  
*Paracheilinus flavianalis* Kuitert & Allen, 1999:  
*Paracheilinus flavianalis*  
*Cirrhalabrus flavidorsalis* Randall & Carpenter, 1980:  
*Cirrhalabrus flavidorsalis*  
*Julis flavovittatus* Bennett, 1828: *Coris flavovittata*
- Lutianus flavus* Rafinesque, 1814?: *Symphodus ocellatus*  
*PlatyGLOSSUS florealis* Jordan & Gilbert, 1882:  
*Halichoeres bivittatus*  
*PlatyGLOSSUS floscorallii* Jordan & Seale, 1906:  
*Halichoeres melanurus*  
*Julis formosus* Val., 1839: *Thalassoma trilobatum*  
*Labrus formosus* Bennett [JW], 1830: *Coris formosa*  
*Cheilio forskalii* Val., 1839: *Cheilio inermis*  
*Choerodon frenatus* Ogilby, 1910: *Choerodon frenatus*  
*Crenilabrus fraenatus* Bennett, 1835: *Symphodus cinereus*  
*Labrus fraenatus* Pallas 1814: *Symphodus cinereus*  
*Iridio frenatus* Nichols, 1920: *Halichoeres maculipinna*  
*Cossyphus frenchii* Klunzinger, 1880: *Bodianus frenchii*  
*Coris frerei* Playfair & Günther, 1867: *Coris formosa*  
*Labrus fucicola* Richardson, 1840: *Notolabrus fucicola*  
*Labrichthys fucicolor* Hutton, 1890: *Notolabrus fucicola*  
*Labrus fucii* Rafinesque, 1810?: *Symphodus cinereus*  
*Labrichthys fuentesii* Regan, 1913: *Pseudolabrus fuentesii*  
*Labrus fuliginosus* Lacepède, 1801: *Hemigymnus fasciatus*  
*Symphodus fulvescens* Rafinesque, 1810: *S. rostratus*  
*Stethojulis fulvoventris* Seale, 1901: *Stethojulis bandanensis*  
*Cheilio fuscus* Lacepède, 1802: *Cheilio inermis*  
*Gomphosus fuscus* Val., 1840: *Gomphosus varius*  
*Gomphosus fuscus* Bennett [JW], 1828: *G. caeruleus*  
*Labrus fuscus* Gmelin 1789: *Symphodus mediterraneus*  
*Labrus fuscus* Lacepède, 1801: *Thalassoma trilobatum*  
*Labrus fuscus* Pallas, 1814: *Symphodus cinereus*
- \* *Labrus fuscus* Walbaum 1792: *Symphodus mediterraneus*  
*Labrus fusiformis* Rüppell, 1835: *Cheilio inermis*  
*Coris gaimard africana* Smith, 1957: *Coris cuvieri*  
*Coris gaimard speciosa* Fowler, 1946: *Coris gaimard*  
*Julis gaimard Quoy & Gaimard, 1824: Coris gaimard*  
*Scarus gallus* Forsskål, 1775: *Thalassoma lunare*  
*Julis ganymede* Bennett [JW], 1830: *Coris gaimard*  
*Hiatula gardeniana* Lacepède, 1800: *Tautoga onitis*  
*Julis garnoti* Val., 1839: *Halichoeres garnoti*  
*Labrus gayi* Val., 1839: *Pseudolabrus gayi*  
*Xyrichtys geisha* Araga & Yoshino, 1986: *Xyrichtys geisha*  
*Julis genivittatus* Val., 1839: *Thalassoma genivittatum*  
*Clepticus genizara* Cuvier, 1829: *Clepticus parrae*  
*Crenilabrus geoffroyi* Risso, 1827: *Symphodus tinca*  
*Julis geoffroy Quoy & Gaimard, 1824:*  
*Macropharyngodon geoffroy*  
*Lutjanus geoffroyi* Risso, 1810: *Symphodus tinca*  
*Anampses geographicus* Val., 1840: *A. geographicus*  
*Scarus georgii* Bennett [JW], 1830: *Thalassoma purpureum*  
*Scarus georgiiquarti* Bennett [JW], 1841:  
*Thalassoma purpureum*  
*Julis gibbifrons* Quoy & Gaimard, 1834: *Coris aygula*  
*Labrus gibbosus* Bonnatere, 1788: *Symphodus melops*  
*Labrus gibbus* Gmelin, 1789: *Symphodus melops*  
*Julis gillianus* Poey, 1860: *Thalassoma bifasciatum*  
*Labrus giofredi* Risso, 1810: *Coris julis*  
*Julis girardi* Bleeker, 1859: *nomen dubium*  
*Eupetrichthys gloveri* Scott, 1974: *Pictilabrus laticlavus*  
*Anampses godeffroyi* Günther, 1881: *Anampses cuvier*  
*Chilinus godeffroyi* Günther, 1872: *Cheilinus undulatus*  
*Labrus goldsinny* Bonnatere, 1788: *Symphodus melops*  
*Labrus gouanii* Lacepède, 1801: *nomen dubium*  
*Labrus gouldii* Richardson, 1843: *Achoerodus gouldii*  
*Julis gracilis* Steindachner, 1863: *Thalassoma lunare*  
*Labrichthys gracilis* Steindachner & Döderlein, 1887:  
*Suezichthys gracilis*  
*Thalassoma grammaticum* Gilbert, 1890: T.  
*grammaticum*  
*Lepidaplois grandisquamis* Smith, 1968:  
*Decodon grandisquamis*  
*Amorpocephalus granulatus* Bowdich, 1825: *Xyrichtys novacula*  
*Choerops graphicus* De Vis, 1885: *Choerodon graphicus*  
*Chlorichthys grayii* Swainson, 1839?: *Thalassoma lunare*



- Coris greenoughii* Günther, 1862: *Coris gaimard*  
*Julis greenovii* Bennett, 1828: *Coris gaimard*  
*Labrus griseus* Gmelin, 1789: *Symphodus cinereus*  
*Choerojulius grandisquamis* Gill, 1863: *Halichoeres bivittatus*  
*Julis guentheri* Bleeker, 1862: *Thalassoma quinquevittatum*  
*Pseudolabrus guentheri* Bleeker, 1862: *Pseudolabrus guentheri*  
*Coris guineensis* Bleeker, 1863: *Coris atlantica*  
*Lappanella guineensis* Bauchot, 1969: *Lappanella guineensis*  
*Duymaeria guttata* Fowler & Bean, 1928: *Pteragogus guttatus*  
*Cheilinus guttatus* Bleeker, 1847: *Cheilinus chlorourus*  
*Labrus guttatus* Bloch, 1791: *Halichoeres argus*  
*Labrus guttatus* Bonnaterre 1788: *Symphodus ocellatus*  
*Labrus guttatus* Gmelin, 1789: *Symphodus ocellatus*  
\* *Labrus guttatus* Walbaum, 1792: *Symphodus ocellatus*  
*Labrus guttulatus* Lacepède, 1801: *Halichoeres argus*  
*PlatyGLOSSUS guttulatus* Macleay, 1883: *Halichoeres chloropterus*  
*Labrus gymnocephalus* Bloch & Schneider, 1801:  
*Halichoeres chloropterus*  
*Labrichthys gymnogenis* Günther, 1862: *Notolabrus gymnogenis*  
*Xiphochilus gymonogenys* Playfair & Günther, 1867:  
*Choerodon gymnogenys*  
*Coris halei* Day, 1888: *Coris formosa*  
*Sparus hardwicke* Bennett [JW], 1830: *Thalassoma hardwicke*  
*Julis hardwickii* Gray, 1832: *Thalassoma lunare*  
*Julis harloffii* Bleeker, 1847: *Halichoeres margaritaceus*  
*Julis hartzfeldii* Bleeker, 1852: *Halichoeres hartzfeldii*  
*Labrus hassek* Lacepède, 1801: *Cheilio inermis*  
*Labrus hebraicus* Lacepède, 1801: *Thalassoma hebraicum*  
*Thalassoma heiseri* Randall & Edwards, 1984: *T. heiseri*  
*Cheilio hemichrysos* Val., 1839: *Cheilio inermis*  
*Sparus hemisphaericus* Shaw, 1803: *Thalassoma trilobatum*  
*Sparus hemisphaerium* Lacepède, 1802:  
*Novaculichthys taeniourus*  
*Paracheilinus hemitaeniatus* Randall & Harmelin-Vivien, 1977:  
*Paracheilinus hemitaeniatus*  
*Labrus herbeus* Walbaum 1792: *Labrus mixtus*  
*Thalassoma herrei* Seale, 1935: *Thalassoma lunare*  
*Cirrhilabrus heterodon* Bleeker, 1871: *C. cyanopleura*  
*Julis heteropterus* Bleeker, 1857: *Pseudocoris heteroptera*  
*Coris hewetti* Randall, 1999: *Coris hewetti*  
*Chilinus hexagonatus* Günther, 1881: *Oxycheilinus unifasciatus*  
*Cheilinus hexataenia* Bleeker, 1857: *Pseudocheilinus hexataenia*  
*Labrus hiattula* Linnaeus, 1766: *Tautoga onitis*  
*Labrus hirsutus* Lacepède, 1801: *Bodianus macrourus*  
*Choerops hodgkinsonii* Saville-Kent, 1893:  
*Choerodon cephalotes*  
*Novacula hoedtii* Bleeker, 1856: *Novaculichthys taeniourus*  
*Cheilinus hoevenii* Bleeker, 1862: *Oxycheilinus celebicus*  
*Julis hoevenii* Bleeker, 1851: *Halichoeres melanurus*  
*Labrus hortulanus* Lacepède, 1801: *Halichoeres hortulanus*  
*Julis humeralis* Poey, 1860: *Halichoeres bivittatus*  
*Coris hupferi* Fischer, 1885: *Coris atlantica*  
*Hemipteronotus hypospilus* Schultz, 1960: *Xyrichtys bimaculatus*  
\* *Julis hyrtlii* Bleeker, 1856: *Halichoeres bicolor*  
*Labrus iagonensis* Bowdich, 1825: *Bodianus speciosus*  
*Halichoeres ianthinus* Fourmanoir, 1955: *H. marginatus*  
*Anampses ikedai* Tanaka 1908: *Anampses meleagrides*  
*Acantholabrus imbricatus* Lowe, 1839: *Acantholabrus palloni*  
*Coris imbris* Tanaka, 1918: *Coris aygula*  
*Novacula immaculata* Val., 1840: *Xyrichtys pavo*  
\* *PlatyGLOSSUS immaculatus* Macleay, 1878: *Halichoeres nigrescens*  
*Thalassoma immanis* Fowler, 1900: *Thalassoma purpureum*  
*Labrus imperialis* Rafinesque 1810?: *Thalassoma pavo*  
*Xyrichtys incandescens* Edwards & Lubbock, 1981:  
*Xyrichtys incandescens*  
*Labrus inermis* Forsskål, 1775: *Cheilio inermis*  
*Xyrichtys infirmus* Bean, 1891: *Xyrichtys martinicensis*  
*Labrus infuscus* Walbaum 1792: *Coris julis*  
*Julichthys inornata* De Vis, 1885: *nomen dubium*  
*Pseudojulis inornatus* Gilbert, 1890: *Pseudojuloides inornatus*  
*Labrus inscriptus* Richardson, 1848: *Notolabrus inscriptus*  
*Epibulus insidiator* var *flava* Bleeker, 1849: *Epibulus insidiator*  
*Sparus insidiator* Pallas, 1770: *Epibulus insidiator*  
*Bodianus insularis* Gomon & Lubbock, 1980: *B. insularis*  
*Halichoeres insularis* Allen & Robertson, 1992: *H. insularis*  
*Crenilabrus intermedius* Gulia, 1861: *nomen dubium*  
*Julis internasalis* Poey, 1861: *Halichoeres cyanocephalus*  
*Julis interruptus* Bleeker, 1851: *Stethojulis interrupta*  
*Halichoeres iridescens* Jenkins, 1901: *H. ornatissimus*  
*Halichoeres irideus* Starks, 1913: *Halichoeres radiatus*  
*Halichoeres irideus torquatus* Parr, 1930: *H. radiatus*  
*Halichoeres iridis* Randall & Smith, 1982: *H. iridis*  
*Ctenolabrus iris* Val., 1839: *Lappanella fasciata*  
*Halichoeres iris* Seale, 1910: *Thalassoma hardwicke*  
*Labrichthys isleanus* Sauvage, 1875: *Nelabrichthys ornatus*  
*Bodianus izuensis* Araga & Yoshino, 1975: *B. izuensis*  
*Novacula jacksonensis* Ramsay, 1881: *X. jacksonensis*  
*Cossyphus jagonensis* Troschel, 1866: *Bodianus speciosus*  
*Julis janssenii* Bleeker, 1856: *Thalassoma janssenii*  
*Duymaeria japonica* Bleeker, 1856: *Pteragogus aurigarius*  
*Choerodonoides japonicus* Kamohara, 1958:  
*Choerodon gymnogenys*  
*Labrus japonicus* Houttuyn, 1782: *nomen dubium*  
*Labrus japonicus* Val., 1839: *Choerodon azurio*  
*Novacula javanica* Bleeker, 1862: *Xyrichtys javanicus*  
\* *Julis javanicus* Bleeker, 1857: *Halichoeres nigrescens*  
*Labrus javensis* Bloch & Schneider 1801: *nomen dubium*  
*Hemipteronotus jenkinsi* Snyder, 1904: *Xyrichtys baldwini*  
*Xyrichtys jessiae* Jordan, 1888: *Xyrichtys novacula*  
*Cirrhilabrus johnsoni* Randall, 1988: *Cirrhilabrus johnsoni*  
*Choerops jordani* Snyder, 1908: *Choerodon jordani*  
*Cirrhilabrus jordani* Snyder, 1904: *Cirrhilabrus jordani*  
*Novacula julioides* Bleeker, 1851:  
*Novaculichthys macrolepidotus*  
*Labrus julis* Linnaeus, 1758: *Coris julis*  
*Pseudojuloides kaleidos* Kuitert & Randall, 1995: *P. kaleidos*  
*Julis kallochroma* Bleeker, 1853: *Halichoeres kallochroma*  
*Julis kalloporis* Bleeker, 1853: *Halichoeres leucurus*  
*Novacula kallosoma* Bleeker, 1860: *Novaculichthys taeniourus*  
*Stethojulis kallosoma* Bleeker, 1862: *Stethojulis interrupta*  
*Julis kalosoma* Bleeker, 1852: *Stethojulis interrupta*  
*Cirrhilabrus katherinae* Randall, 1992: *C. katherinae*  
*Cirrhilabrus katoi* Senou & Hirata, 2000: *C. katoi*  
*Julis kawarin* Bleeker, 1852: *Halichoeres timorensis*  
*Hemicoris keleipionis* Jenkins, 1901: *Coris ballieui*  
*Labrus keslik* Lacepède 1801: *Coris julis*  
*Cheilinus keltitzii* Val., 1840: *Cheilinus oxycephalus*  
*Iridio kirschii* Jordan & Evermann, 1898: *Halichoeres poeyi*  
*Thalassoma klunzingeri* Fowler & Steinitz, 1956:  
*Thalassoma rueppellii*  
\* *Halichoeres kneri* Bleeker, 1862: *Halichoeres nigrescens*  
*Labrus koelreuteri* Walbaum, 1792: *Stethojulis albobittata*  
*Julis kuelkuel* Montrouzier, 1857?: *Cymolutes praetextatus*  
*Macropharyngodon kuiteri* Randall, 1978: *M. kuiteri*  
*Labrichthys labiosa* Macleay, 1881: *Pictilabrus laticlavus*  
*Cirrhilabrus laboutei* Randall & Lubbock, 1982: *C. laboutei*  
*Cheilinus lacrymans* Val., 1840: *Oxycheilinus digramma*  
*Lutjanus lamarckii* Risso, 1810: *Symphodus rostratus*  
*Julis lamarii* Val., 1839: *Halichoeres marginatus*  
*Leptojulis lambdastigma* Randall & Ferraris, 1981:  
*Leptojulis lambdastigma*  
*Cirrhilabrus lanceolatus* Randall & Masuda, 1991:  
*Cirrhilabrus lanceolatus*  
*Labrichthys lantzii* Sauvage, 1875: *Nelabrichthys ornatus*  
*Halichoeres lao* Jenkins, 1901: *Halichoeres ornatissimus*  
*Halichoeres lapillus* Smith, 1947: *Halichoeres lapillus*  
*Labrus lapina* Forsskål, 1775: *Symphodus tinca*  
\* *Julis laportei* Liénard, 1845: *Hologymnosus doliatus*  
*Labrus lappanoides* Rafinesque 1810?: *Symphodus tinca*  
*Labrus lappanus* Rafinesque 1810?: *Symphodus tinca*



- Labrus larvatus* Lowe, 1852: *Labrus mixtus*  
*Labrus laticlavus* Richardson, 1840: *Pictilabrus laticlavus*  
*Labrus latovittatus* Lacepède in Rüppell, 1835:  
*Labroides dimidiatus*  
*Cossyphus latro* De Vis, 1885: *Bodianus perditio*  
*Xyrichtys lecluse* Quoy & Gaimard, 1824: *Cymolutes lecluse*  
*Anampses lennardi* Scott, 1959: *Anampses lennardi*  
*Labrus leo* Rafinesque, 1810: *Thalassoma pavo*  
*Julis leparensis* Bleeker, 1852: *Halichoeres argus*  
*Coris lepomis* Jenkins, 1901: *Coris flavovittata*  
*Halichoeres leptotaenia* Randall & Earle, 1994: *H. leptotaenia*  
*Julis leschenaulti* Val., 1839: *Halichoeres scapularis*  
*Julis lessonii* Val., 1839: *Thalassoma sanctaehelenae*  
*Tautoga leucomus* Bleeker, 1858: *Hemigymnus*  
*Julis leucorhynchus* Bleeker, 1856: *Coris gaimard*  
*Labrus leucosticticus* Bennett, 1832: *Bodianus leucosticticus*  
\* *Halichoeres leucostigma* Fowler & Bean, 1928: *H. nigrescens*  
*Halichoeres leucoxanthus* Randall & Smith, 1982:  
*Halichoeres leucoxanthus*  
*Crenilabrus leucozona* Bleeker, 1858: *Choerodon anchorago*  
\* *Iniistius leucozonus* Jenkins, 1901: *Xyrichtys pavo*  
*Labrus leucurus* Walbaum, 1792: *Halichoeres leucurus*  
*Anampsoanax lienardi* Bleeker, 1875: *A. geographicus*  
*Labrus limbatus* Val., 1839: *Labrus merula*  
*Stethojulis linearis* Schultz, 1960: *Stethojulis bandanensis*  
*Coryphaena lineata* Gmelin, 1789: *Xyrichtys novacula*  
*Pseudojulis lineata* Castelnau, 1873: *Ophthalmolepis lineolatus*  
*Torresia lineata* De Vis, 1885: *Choerodon schoenleinii*  
*Cirrhilabrus lineatus* Randall & Lubbock, 1982: *C. lineatus*  
*Labrus lineatus* Bonnaterre, 1788: *Labrus mixtus*  
*Labrus lineatus* Walbaum 1792: *nomen dubium*  
*Xyrichtys lineatus* Val., 1840: *Xyrichtys martinicensis*  
*Coryphaena lineolata* Rafinesque, 1810: *Xyrichtys novacula*  
*Anampses lineolatus* Bennett, 1836: *A. caeruleopunctatus*  
*Julis lineolatus* Val., 1839: *Ophthalmolepis lineolatus*  
*Labrus lineolatus* Val., 1839: *Labrus merula*  
*Paracheilinus lineopunctatus* Randall & Lubbock, 1981:  
*Paracheilinus lineopunctatus*  
*Lutjanus linkii* Bloch, 1790: *Symphodus tinca*  
*Hemipteronotus liogenys* Fowler, 1904: *Xyrichtys aneitensis*  
*Crenilabrus littoralis* Risso, 1827: *Symphodus ocellatus*  
*Labrus livens* Linnaeus, 1758?: *Labrus merula*  
*Labrus lividus* Val., 1839: *Labrus viridis*  
*Sparus lividus* Lacepède, 1802?: *Labrus merula*  
\* *Crenilabrus locaninus* Gulia, 1861: *Symphodus melops*  
*Coris longipes* Günther, 1862: *Hologymnosus longipes*  
*Acarauna longirostris* Sevestianoff, 1802: *Gomphosus caeruleus*  
*Lepidaplois loxozonus* Snyder, 1908: *Bodianus loxozonus*  
*Thalassoma loxum* Randall & Mee, 1994: *T. loxum*  
*Cirrhilabrus lubbocki* Randall & Carpenter, 1980: *C. lubbocki*  
*Julis lucasanus* Gill, 1862: *Thalassoma lucasanum*  
*Labrus luculentus* Richardson, 1848: *Pseudolabrus luculentus*  
*Crenilabrus melops lugubris* Risso in Bonaparte, 1846:  
*nomen nudum*  
*Labrus lunaris* Linnaeus, 1758: *Thalassoma lunare*  
*Anampses lunatus* Sauvage, 1891: *Anampses meleagrides*  
*Cirrhilabrus lunatus* Randall & Masuda, 1991: *C. lunatus*  
*Cheilinus lunifer* Nichols, 1923: *Cheilinus lunulatus*  
*Labrus lunulatus* Forsskål, 1775: *Cheilinus lunulatus*  
*Labrus luscus* Linnaeus, 1758: *Labrus viridis*  
*Lepidaplois luteopunctatus* Smith, 1957: *Bodianus trilineatus*  
*Cirrhilabrus luteovittatus* Randall, 1988: *C. luteovittatus*  
*Julis lutescens* Lay & Bennett, 1839: *Thalassoma lutescens*  
*Labrus luteus* Walbaum 1792: *Labrus viridis*  
*Labrus luvarus* Rafinesque, 1810: *Labrus mixtus*  
*Cirrhilabrus lyukyuensis* Ishikawa, 1904: *C. cyanopleura*  
*Halichoeres macgregori* Gilbert & Starks, 1904: *H. nicholsi*  
*Choerops macleayi* Ramsay & Ogilby, 1887:  
*Choerodon cephalotes*  
*Halichoeres macleayi* Jordan & Seale, 1906:  
*Xenajulis margaritaceus*  
*Labrichthys macleayi* Herzenstein, 1896: *Dotalabrus aurantiacus*  
*Cossyphus macrodon* Bleeker, 1849: *Choerodon anchorago*  
*Labrus macrodontus* Lacepède, 1801: *Choerodon anchorago*  
*Lepidaplois macrognathos* Morris, 1974: *Bodianus macrognathos*  
*Labrus macrolepidotus* Bloch, 1791:  
*Novaculichthys macrolepidotus*  
*Labrus macrolepidotus* Walbaum 1792: *nomen dubium*  
*Labrus macrostomus* Rafinesque 1810?: *Symphodus rostratus*  
*Labrus macrourus* Lacepède, 1801: *Bodianus macrourus*  
*Cossyphus macrurus* Günther, 1862: *Bodianus macrourus*  
*Julis maculata* Lesson, 1828: *Thalassoma lunare*  
*Labrichthys maculata* Macleay, 1881: *Austrolabrus maculatus*  
\* *Dentex maculatus* Perez Canto, 1886: *Semicossyphus darwini*  
*Labrichthys maculatus* De Vis, 1885: *Pseudolabrus guentheri*  
*Labrus maculatus* Bloch, 1792: *Labrus bergylla*  
\* *PlatyGLOSSUS maculatus* Jatzow & Lenz, 1898:  
*Halichoeres nigrescens*  
*Scarus maculatus* Gronow in Gray, 1854?: *Symphodus ocellatus*  
*Stethojulis maculatus* Schmidt, 1931: *Stethojulis maculata*  
*Pseudojulis maculifer* Castelnau, 1875: *Halichoeres nebulosus*  
*Julis maculipinna* Müller & Troschel, 1848:  
*Halichoeres maculipinna*  
*Perca maculosa* Retzius, 1800: *Symphodus melops*  
*Cheilinus maculosus* Val., 1840: *Cheilinus trilobatus*  
\* *Hemipteronotus maculosus* Fourmanoir, 1967:  
*Xyrichtys baldwini*  
\* *Julidio maculosus* Clark, 1936: *Halichoeres nicholsi*  
*Labrus maculosus* Gronow, 1854: *nomen dubium*  
*Choerops maeander* Cartier, 1874: *Choerodon anchorago*  
*Cheilolabrus magnilabris* Alleyne & Macleay, 1877:  
*Hemigymnus melapterus*  
*Labrus malacopterus* Forster 1795: *nomen dubium*  
*Labrus malapteronotus* Lacepède, 1801: *Hemigymnus fasciatus*  
*Labrus malapterus* Bloch 1792: *Hemigymnus melapterus*  
*Cossyphus maldat* Val., 1839: *Bodianus macrourus*  
*Halichoeres malpelo* Allen & Robertson, 1992: *H. malpelo*  
*Labropsis manabei* Schmidt, 1931: *Labropsis manabei*  
*Lutjanus manis* Nardo, 1827: *nomen dubium*  
*Pseudocheilinus margaretae* Smith, 1956: *P. octotaenia*  
*Julis margaritaceus* Val., 1839: *Halichoeres margaritaceus*  
*PlatyGLOSSUS margaritaceus* Macleay, 1883:  
*Xenajulis margaritaceus*  
\* *Xyrichtys margaritatus* Fourmanoir, 1967: *Xyrichtys dea*  
*Choerodon margaritifera* Fowler & Bean, 1928:  
*Choerodon margaritifera*  
\* *Labrus margaritiferus*, Cuvier, 1829:  
*Macropharyngodon geoffroy*  
*Julis margaritiphorus* Bleeker, 1853: *Halichoeres bicolor*  
*Ctenolabrus marginatus* Val., 1839: *Ctenolabrus rupestris*  
*Halichoeres marginatus* Rüppell, 1835: *H. marginatus*  
*Labrus marmoratus* Rafinesque 1810?: *Symphodus tinca*  
*Thalassoma marnae* Schultz, 1943: *T. amblycephalum*  
*Coris marquesensis* Randall, 1999: *Coris marquesensis*  
*Stethojulis marquesensis* Randall, 2000: *S. marquesensis*  
*Xyrichtys martinicensis* Val., 1840: *Xyrichtys martinicensis*  
\* *Thalassoma mascarenense* Fricke, 1999: *T. genivittatum*  
*Lutjanus massa* Risso, 1810: *Symphodus cinereus*  
*Lutjanus massiliensis* Lacepède, 1802: *Symphodus mediterraneus*  
*Bodianus masudai* Araga & Yoshino, 1975: *B. masudai*  
*Julis matthoei* Val., 1839: *Thalassoma genivittatum*  
*Cossyphus maxillosus* Guichenot, 1865: *Choerodon robustus*  
*Labrus maximus* Walbaum, 1792: *Lachnolaimus maximus*  
*Paracheilinus maccoskeri* Randall & Harmelin-Vivien, 1977:  
*Paracheilinus maccoskeri*  
*Sparus meaco* Lacepède, 1802: *Hemigymnus fasciatus*  
*Julis mediterranea* Risso, 1827: *Coris julis*  
*Perca mediterranea* Linnaeus, 1758: *Symphodus mediterraneus*



- Labrus mediterraneus* Bloch & Schneider, 1801:  
*Symphodus mediterraneus*  
*Doratonotus megalepis* Günther, 1862: *D. megalepis*  
*Labrus melampterus* Bloch & Schneider, 1801:  
*Hemigymnus melapterus*  
*Lutjanus melanocercus* Risso, 1810: *Symphodus melanocercus*  
*Halichoeres melanochir* Fowler & Bean, 1928:  
*Halichoeres melanochir*  
*Julis melanochir* Bleeker, 1857: *Thalassoma amblycephalum*  
*Thalassoma melanochir* Fowler, 1904: *T. amblycephalum*  
*Cirrhilabrus melanomarginatus* Randall & Shen, 1978:  
*Cirrhilabrus melanomarginatus*  
*Cheilinus melanopleura* Bleeker, 1866: *Oxycheilinus bimaculatus*  
\* *Julis melanoptera* Günther, 1862: *Thalassoma lutescens*  
*Labrus melanopterus* Forster 1795?: *Hemigymnus melapterus*  
*Novacula melanopus* Bleeker, 1857: *Xyrichtys melanopus*  
*Choerodon melanostigma* Fowler & Bean, 1928:  
*Choerodon melanostigma*  
*Pseudojulis melanotis* Gilbert, 1890: *Halichoeres melanotis*  
*Labrus melanotus* Rafinesque 1810: *nomen dubium*  
*Gomphosus melanotus* Bleeker, 1855: *Gomphosus caeruleus*  
*Crenilabrus melanoxanthurus* Cocco, 1840:  
*Symphodus melanocercus*  
*Julis melanura* Lowe, 1839: *Coris julis*  
*Labrichthys melanura* Macleay, 1881: *Pseudolabrus guentheri*  
*Anampses melanurus* Bleeker, 1857: *Anampses melanurus*  
*Anampses melanurus lineatus* Randall, 1972: *A. lineatus*  
*Julis melanurus* Bleeker, 1851: *Halichoeres melanurus*  
*Labrus melapterus* Bloch, 1791: *Hemigymnus melapterus*  
*Halichoeres melas* Randall & Earle, 1994: *H. melas*  
*Decodon melasma* Gomon, 1974: *Decodon melasma*  
*Halichoeres melasmapomus* Randall, 1981: *H. melasmapomus*  
*Anampses meleagrides* Val., 1840: *Anampses meleagrides*  
*Anampses meleagris* Günther, 1862: *Anampses meleagrides*  
*Choerops meleagris* Rüppell, 1852: *Choerodon anchorago*  
*Julis meleagris* Val., 1839: *Macropharyngodon meleagris*  
*Labrus melops* Linnaeus, 1758: *Symphodus melops*  
*Labrus mendovella* Rafinesque 1810: *Symphodus ocellatus*  
*Julis meniscus* Val., 1839: *Thalassoma lunare*  
*Cheilinus mentalis* Rüppell, 1828: *Oxycheilinus mentalis*  
*Cheilinus mertensii* Val., 1840: *Cheilinus undulatus*  
*Julis mertensii* Val., 1839?: *Thalassoma lunare*  
*Tautoga mertensii* Val., 1839: *Hemigymnus fasciatus*  
*Labrus merula* Linnaeus, 1758: *Labrus merula*  
*Pseudojuloides mesostigma* Randall & Randall, 1981:  
*Pseudojuloides mesostigma*  
*Labrus mesothorax* Bloch & Schneider, 1801:  
*Bodianus mesothorax*  
\* *PlatyGLOSSUS metager* Day, 1888: *Halichoeres marginatus*  
*Iridio meyeri* Bean, 1906: *Halichoeres maculipinna*  
*Labrus microlepidotus* Bloch, 1792?: *Labrus mixtus*  
*Xyrichtys microlepidotus* Val., 1840: *Cymolutes lecluse*  
*Novacula microlepis* Vaillant & Sauvage, 1875: *Cymolutes lecluse*  
*Labropsis micronesica* Randall, 1981: *L. micronesica*  
*Cheilio microstoma* Val., 1839: *Cheilio inermis*  
*Crenilabrus microstoma* Thompson, 1837: *Centrolabrus exoletus*  
*Iridio microstomus* Bean, 1906: *Halichoeres maculipinna*  
*Labrus miles* Forster in Bl. & Schn., 1801: *Pseudolabrus miles*  
*Julis miniatus* Val., 1839: *Halichoeres miniatus*  
*Lepidaplois mirabilis* Snyder, 1908: *Choerodon fasciatus*  
*Labrus mixtus* Linnaeus, 1758: *Labrus mixtus*  
*Crenilabrus modestus* Garret, 1864: *Bodianus bilunulatus*  
*Julis modestus* Bleeker, 1847: *Halichoeres chloropterus*  
*Julis modestus* Girard, 1854: *Oxyjulis californica*  
*Xyrichtys modestus* Poey, 1867: *Xyrichtys martinicensis*  
\* *Labrus mola* Cuvier 1829: *Halichoeres nigrescens*  
*Odax moluccanus* Val., 1840: *Pseudodax moluccanus*  
*Pseudodax moluccensis* Günther, 1862: *P. moluccanus*  
\* *Anampses moniliger* Cuvier, 1829: *Halichoeres leucurus*  
*Choerodon monostigma* Ogilby, 1910: *C. monostigma*  
*Xenajulis montillai* de Beaufort, 1939: *X. margaritaceus*  
*Scarus mordax* Gronow in Gray, 1854: *Bodianus mesothorax*  
*Crenilabrus morelli* Nordmann, 1840: *Symphodus ocellatus*  
*Cirrhilabrus morrisoni* Allen, 1999: *Cirrhilabrus morrisoni*  
*Labrichthys mortonii* Johnston, 1885: *Pseudolabrus rubicundus*  
*Cheilinus mossambicus* Günther, 1862: *Oxycheilinus bimaculatus*  
*Macropharyngodon moyeri* Shepard & Meyer, 1978: *M. moyeri*  
*Platychoerops muelleri* Klunzinger, 1880: *Achoerodus gouldii*  
*Halichoeres multicolor* Rüppell, 1835: *Coris caudimacula*  
*Labrus multicostatus* Gronow in Gray, 1854:  
*Halichoeres bivittatus*  
*Crenilabrus multidentatus* Thompson, 1837: *Labrus bergylta*  
*Xyrichtys mundiceps* Gill, 1862: *Xyrichtys mundiceps*  
*Iniistius mundicarpus* Gill, 1862: *Xyrichtys pavo*  
*Pseudojulis murrayensis* De Vis, 1885: *Halichoeres miniatus*  
*Julis musume* Jordan & Snyder, 1904: *Coris picta*  
*Harpe naevius* Eigenmann, 1894: *Bodianus pulchellus*  
*Halichoeres nafiae* Tanaka, 1908: *H. margaritaceus*  
*Anampses nagayoi* Tanaka 1908: *Anampses meleagrides*  
*Labrus nardii* Perugia 1866: *Labrus viridis*  
*Gomphosus nasutus* Parkinson in Cuv. & Val., 1840:  
*Gomphosus varius*  
*Labrus nasutus* Günther, 1862: *nomen nudum*  
*Choerops natalensis* Gilchrist & Thompson, 1909:  
*Anchichoerops natalensis*  
*Thalassoma neanis* Jordan & Evermann, 1907: *T. lutescens*  
*Cheilinus nebulosus* Richardson, 1846: *Cheilinus trilobatus*  
*Julis nebulosus* Val., 1839: *Halichoeres nebulosus*  
*Macropharyngodon negrosensis* Herre, 1932: *M. negrosensis*  
*Cossyphus neilli* Day, 1867: *Bodianus neilli*  
*Crenilabrus nematopterus* Bleeker, 1851: *Pteragogus flagellifer*  
*Anampses neoguinaicus* Bleeker, 1878: *A. neoguinaicus*  
*Labrus nereus* Risso, 1810: *Labrus merula*  
*Labrus neustriiae* Lacepède, 1801: *Labrus bergylta*  
*Julis newtoni* Osorio, 1891?: *Thalassoma ascensionis*  
*PlatyGLOSSUS nicholsi* Jordan & Gilbert, 1882:  
*Halichoeres nicholsi*  
\* *Labrus niger* Nardo 1824: *Symphodus tinca*  
*Sparus niger* Lacepède, 1802: *Hemigymnus melapterus*  
*Tautoga niger* Mitchell, 1814: *Tautoga onitis*  
*Tautoga niger* var *alius* Mitchell, 1814: *Tautoga onitis*  
*Tautoga niger* var *fuscus* Mitchell, 1814: *Tautoga onitis*  
*Tautoga niger* var *rubens* Mitchell, 1814: *Tautoga onitis*  
*Novacula nigra* Steindachner, 1900: *Xyrichtys niger*  
*Crenilabrus nigrescens* Risso, 1827: *Symphodus mediterraneus*  
*Labrus nigrescens* Bloch & Schneider, 1801:  
*Halichoeres nigrescens*  
*Cossyphus nigromaculatus* Gilchrist & Thompson, 1908:  
*Bodianus perditio*  
*Hemipteronotus nigromaculatus* Herre, 1933: *Xyrichtys twistii*  
*PlatyGLOSSUS nigromaculatus* Günther, 1872:  
*Macropharyngodon meleagris*  
*Labrichthys nigromarginatus* Macleay, 1878:  
*Notolabrus gymnogenis*  
*Cheilinus nigropinnatus* Seale, 1901: *Wetmorella nigropinnata*  
*Halichoeres nigropunctatus* Seale, 1901:  
*Macropharyngodon meleagris*  
*Coris nigrotaenia* Mee & Hare, 1995: *Coris nigrotaenia*  
*Julis nitida* Günther, 1862: *Thalassoma bifasciatum*  
*Julis nitidissima* Goode, 1877: *Thalassoma bifasciatum*  
*Xyrichtys niveilatus* Jordan & Evermann, 1903: *X. aneitensis*  
*Julis noronhana* Boulenger, 1890: *Thalassoma noronhanum*  
*Lutjanus norwegicus* Bloch, 1791: *Symphodus melops*  
*Chaerops notatus* Alleyne & Macleay, 1877:  
*Choerodon schoenleinii*  
*Julis notatus* Richardson & Solander in Richardson, 1843:  
*Notolabrus celidotus*  
*Lutjanus notatus* Bloch, 1790: *nomen dubium*  
*Pseudolabrus notatus* Kamohara, 1958: *Suezichthys notatus*  
*Stethojulis notialis* Randall, 2000: *Stethojulis notialis*



- \* *Cheilinus notophthalmus* Bleeker, 1853: *Oxycheilinus arenatus*  
*Julis notophthalmus* Bleeker, 1847: *Halichoeres hortulanus*  
*Tautoga notophthalmus* Bleeker, 1856: *Halichoeres hortulanus*  
*Julis notopsis* Val., 1839: *Halichoeres marginatus*  
*Pseudojulis notospilus* Günther, 1864: *Halichoeres notospilus*  
*Gomphosus notostigma* Bleeker, 1862: *Gomphosus varius*  
*Coryphaena novacula* Linnaeus, 1758: *Xyrichtys novacula*  
*Xyrichtys novaculoides* Bleeker, 1853: *Cymolutes torquatus*  
*Labrus nubilus* Val., 1843: *Labrus bergylta*  
*Labrichthys nudigena* De Vis, 1885: *Halichoeres hartzfeldii*  
*Choerops nyctemblemata* Jordan & Evermann, 1902?:  
*Choerodon schoenleinii*  
*Julis obscura* Günther, 1880: *Thalassoma ballieui*  
*Labrus ocellaris* Linnaeus 1758?: *Symphodus ocellatus*  
*Wetmorella ocellata* Schultz & Marshall, 1954: *W. nigropinnata*  
*Labrus ocellatus* Forsskal, 1775: *Symphodus ocellatus*  
*PlatyGLOSSUS ocellatus* Kner & Steindachner, 1867:  
*Labrichthys unilineatus*  
*Pseudocheilinus ocellatus* Randall, 1999: *P. ocellatus*  
*Pseudocoris ocellatus* Chen & Shao, 1995: *P. ocellata*  
*Cossyphus octomaculatus* Liénard in Sauvage, 1891:  
*Bodianus axillaris*  
*Paracheilinus octotaenia* Fourmanoir, 1955: *P. octotaenia*  
*Pseudocheilinus octotaenia* Jenkins, 1901: *P. octotaenia*  
*Labrus oculusperdix* Rafinesque 1810: *Symphodus roissali*  
*Crenilabrus oligacanthus* Bleeker, 1851: *Choerodon oligacanthus*  
\* *Choerops olivaceus* De Vis, 1885: *Choerodon cyanodus*  
*Labrus olivaceus* Bonnaterre, 1788: *Symphodus ocellatus*  
\* *Labrus olivaceus* Walbaum, 1792: *Symphodus ocellatus*  
*Cossyphus ommopterus* Richardson, 1846:  
*Choerodon schoenleinii*  
*Labrus onitis* Linnaeus, 1758: *Tautoga onitis*  
*Julis opalina* Val., 1839: *Halichoeres radiatus*  
*Cossyphus opercularis* Guichenot, 1847: *Bodianus opercularis*  
*Cossyphus opercularis* Peters, 1855: *Pteragogus pelycus*  
*PlatyGLOSSUS opercularis* Günther, 1862:  
*Halichoeres margaritaceus*  
*Trochocopus opercularis* Günther, 1862: *Bodianus opercularis*  
*Cheilinus orientalis* Günther, 1862: *Oxycheilinus orientalis*  
*Julis ornatissimus* Garrett, 1863: *Halichoeres ornatissimus*  
*Gomphosus ornatus* Bennett, 1830: *Gomphosus caeruleus*  
*Labrus ornatus* Carmichael, 1819: *Nelabrichthys ornatus*  
*Labrus ornatus* Gronow in Gray, 1854: *Thalassoma bifasciatum*  
*Macropharyngodon ornatus* Randall, 1978: *M. ornatus*  
*Thysanochelilus ornatus* Kner, 1865: *Labrichthys unilineatus*  
*Labrus ossifagus* Linnaeus, 1758: *Labrus mixtus*  
*Cheilinus oxycephalus* Bleeker, 1853: *C. oxycephalus*  
*Cossyphus oxycephalus* Bleeker, 1862: *Bodianus oxycephalus*  
*Julis oxyrhynchus* Bleeker, 1857: *Hologymnosus doliatus*  
*Cheilinus oxyrhynchus* Bleeker, 1862: *Oxycheilinus celebicus*  
*Gomphosus pacificus* Seale, 1901: *Gomphosus varius*  
*Verreo pacificus* Kamohara, 1952: *Decodon pacificus*  
*PlatyGLOSSUS pagenstecheri* Kossmann & Räuber, 1877:  
*Halichoeres scapularis*  
*Choerops palawanensis* Seale, 1910: *Choerodon oligacanthus*  
*Coris pallida* MacLeay, 1881: *Coris batuensis*  
*Halichoeres pallidus* Kuitert & Randall, 1995: *H. pallidus*  
\* *Labrus pallidus* Nardo, 1824: *Acantholabrus palloni*  
*Lutjanus palloni* Risso, 1810: *Acantholabrus palloni*  
*Xyrichtys panamensis* Fowler, 1944: *Xyrichtys pavo*  
*Julis papilionaceus* Val., 1839: *Halichoeres papilionaceus*  
*Coris papuensis* Macleay, 1883: *Coris batuensis*  
*Labroides paradiseus* Bleeker, 1851: *Labroides dimidiatus*  
*Julis pardaleocephalus* Bleeker, 1849:  
*Halichoeres pardaleocephalus*  
*Leptojulis pardalis* Kner, 1867: *Macropharyngodon meleagris*  
*Tautoga parila* Richardson, 1850: *Notolabrus parilus*  
*Labrus paroticus* Linnaeus, 1758: *Coris julis*  
*Brama parrae* Bloch & Schneider 1801: *Clepticus parrae*  
*Julis patatus* Val., 1839: *Halichoeres radiatus*  
*Labrus pavo* Linnaeus, 1758: *Thalassoma pavo*  
*Xyrichtys pavo* Val., 1840: *Xyrichtys pavo*  
*Julis pavoninus* Val., 1839: *nomen dubium*  
*Xyrichtys pavoninus* Val., 1840: *Xyrichtys pavo*  
*Choerodon paynei* Whitley, 1945: *Choerodon paynei*  
*Gomphosus pectoralis* Quoy & Gaimard, 1824: *G. varius*  
*Labroides pectoralis* Randall & Springer, 1975: *L. pectoralis*  
*Harpe pectoralis* Gill, 1862: *Bodianus diplotaenia*  
*Halichoeres pelicierii* Randall & Smith, 1982: *H. pelicierii*  
*Pteragogus pelycus* Randall, 1981: *Pteragogus pelycus*  
*Crenilabrus pennantii* Val., 1839: *Symphodus melops*  
*Halichoeres penrosei* Starks, 1913: *H. maculipinna*  
*Labrus pentacanthus* Lacepède, 1801: *Centrolabrus exoletus*  
*Coryphaena pentadactyla* Linnaeus, 1758:  
*Xyrichtys pentadactylus*  
*Labrus perdica* Forsskal 1775: *Coris julis*  
*Labrus perditio* Quoy & Gaimard, 1834: *Bodianus perditio*  
*Labrus perioides* Walbaum 1792: *nomen dubium*  
*Xyrichtys perlas* Wellington, Allen & Robertson, 1994:  
*Novaculichthys perlas*  
*Choerops perpallidus* De Vis, 1885: *Choerodon cephalotes*  
*Labrus perspicillatus* Pallas, 1814: *Symphodus ocellatus*  
*Choerodon pescadorensis* Yu, 1968: *Choerodon robustus*  
*Pseudolepidaplois pflaffi* Bauchot & Blanc, 1961:  
*Bodianus scrofa*  
*Julis phaiopus* Bleeker, 1853: *Halichoeres marginatus*  
*Julis phaiotaenia* Bleeker, 1855: *Halichoeres scapularis*  
*Stethojulis phaeodopleura* Martens, 1876: *Stethojulis trilineata*  
*Julis phaeodopleura* Bleeker, 1849: *Stethojulis trilineata*  
*Coris philippina* Fowler & Bean, 1928: *Pseudocoris bleekeri*  
*Wetmorella philippina bifasciata* Schultz & Marshall, 1954:  
*Wetmorella nigropinnata*  
*Wetmorella philippina* Fowler & Bean, 1928: *W. albofasciata*  
(in part)  
*Wetmorella philippina* Fowler & Bean, 1928:  
*Wetmorella nigropinnata* (in part)  
*Labroides phthirophagus* Randall, 1958: *L. phthirophagus*  
*Coris pictoides* Randall & Kuitert, 1982: *Coris pictoides*  
*Chaeropsodes pictus* Gilchrist & Thompson, 1909:  
*Bodianus perditio*  
*Crenilabrus pictus* Lowe, 1838: *Symphodus mediterraneus*  
*Julis pictus* Poey, 1860: *Halichoeres pictus*  
*Labrus pictus* Bloch & Schneider 1801: *Coris picta*  
*Labrus pictus* Gronow, 1854: *nomen dubium*  
*Labrus pincus* Nardo, 1824: *Labrus viridis*  
*Labrus pirca* Walbaum 1792?: *Symphodus bailloni*  
*Cirrhilabrus piscilineatus* Cornic, 1987:  
*Paracheilinus piscilineatus*  
*Labrus pitimoides* Rafinesque 1810?: *Symphodus rostratus*  
*Pseudolabrus pittensis* Waite, 1910: *Notolabrus fucicola*  
*Labrus pittima* Rafinesque, 1810: *Symphodus mediterraneus*  
*Julis podostigma* Bleeker, 1854: *Halichoeres podostigma*  
*Julis poecila* Lay & Bennett, 1839: *Halichoeres margaritaceus*  
*Julis poecilepterus* Temminck & Schlegel, 1845:  
*Parajulis poecilepterus*  
*Labrus poecilopleura* Val., 1839: *Notolabrus celidotus*  
*Julis poecilopterus* Richardson, 1846: *Parajulis poecilepterus*  
*PlatyGLOSSUS poeyi* Steindachner, 1867: *Halichoeres poeyi*  
*Labrus polychrous* Pallas, 1814: *Symphodus tinca*  
*Cheilinus polygramma* Val., 1840: *Oxycheilinus unifasciatus*  
*Leptojulis polylepis* Randall, 1996: *Leptojulis polylepis*  
*Labropsis polynesica* Randall, 1981: *Labropsis polynesica*  
*Labrus polyodon* Bloch & Schneider 1801?: *Thalassoma lunare*  
*Labrus polyodon* Walbaum 1792?: *Thalassoma lunare*  
*Julis polyophthalmus* Bleeker, 1852: *Halichoeres argus*  
*Labrus porcus* Rafinesque, 1810: *nomen dubium*  
*Julis porphyrocephala* Bennett, 1832: *Thalassoma lunare*  
*Julis praetextata* Quoy & Gaimard, 1834: *Cymolutes praetextatus*  
*Labrus prasostictes* Pallas, 1814: *Labrus viridis*  
*Julis principis* Val., 1839: *Halichoeres radiatus*



- Bodianus prognathus* Lobel, 1981: *Bodianus prognathus*
- \* *Crenilabrus propinquus* Gulia, 1861: *Symphodus tinca*
- Julis prosopoeion* Bleeker, 1853: *Halichoeres prosopoeion*
- Julis prostigma* Kuhl & van Hasselt, 1839: *Thalassoma hardwicke*
- Stethojulis psacas* Jordan & Snyder, 1902: *S. strigiventer*
- PlatyGLOSSUS pseudogramma* Cartier, 1874: *Halichoeres bicolor*
- Julis pseudominiatus* Bleeker, 1856: *Halichoeres nebulosus*
- Labrus psittaculus* Lacepède, 1801: *Halichoeres bivittatus*
- Labrus psittaculus* Richardson 1840: *Pseudolabrus rubicundus*
- Pseudocheilinus psittaculus*, Kner & Steindachner 1867:
- Pseudocheilinus hexataenia*
- Coryphaena psittacus* Linnaeus, 1766: *Xyrichtys novacula*
- Labrus psittacus* Lacepède, 1801: *Labrus viridis*
- Labrus psittacus* Risso, 1827: *Labrus merula*
- Lachnolaimus psittacus* Val., 1839: *Lachnolaimus maximus*
- Anampses pterophthalmus* Bleeker, 1857: *A. geographicus*
- Cossyphus puellaris* Poey, 1860: *Decodon puellaris*
- Cheilinus pulchellus* Sauvage, 1880: *Cheilinus trilobatus*
- Cossyphus pulchellus* Poey, 1860: *Bodianus pulchellus*
- Anampses pulcher* Regan, 1913: *A. caeruleopunctatus*
- Labrus pulcher* Ayres, 1854: *Semicossyphus pulcher*
- Coris pulcherrima* Günther, 1862: *Coris gaimard*
- Labrus pulcherrimus* Forster, 1839: *Thalassoma hardwicke*
- Cheilinus punctatus* Bennett, 1832: *Cheilinus chlorourus*
- Cirrhilabrus punctatus* Randall & Kuitert, 1989: *C. punctatus*
- Julis punctatus* Seale, 1901: *Thalassoma purpureum*
- PlatyGLOSSUS punctatus* De Vis, 1885: *Coris batuensis*
- Labrichthys punctulata* Günther, 1862: *Notolabrus parilus*
- Novacula punctulata* Val., 1840: *Xyrichtys bimaculatus*
- Cheilinus punctulatus* Val., 1840: *Cheilinus chlorourus*
- Julis punctulatus* Val., 1839: *Halichoeres argus*
- Xyrichtys puniceus* Richardson, 1846: *Xyrichtys pavo*
- Scarus purpuratus* Shaw, 1803: *Thalassoma purpureum*
- Julis purpureolineatus* Val., 1839: *Leptojulis cyanopleura*
- Labrus purpureus* Bloch & Schneider 1801:
- Halichoeres leucurus*
- Julis purpureus* Rüppell, 1828: *Thalassoma rueppellii*
- Scarus purpureus* Forsskal, 1775: *Thalassoma purpureum*
- Crenilabrus pusillus* Nordmann, 1840: *Symphodus cinereus*
- Cirrhilabrus pylei* Allen & Randall, 1996: *Cirrhilabrus pylei*
- Pseudojuloides pyrius* Randall & Randall, 1981: *P. pyrius*
- Julis pyrrhogramma* Temminck & Schlegel, 1845:
- Parajulis poecilepterus*
- Julis pyrrhogrammatoides* Bleeker, 1853: *Leptojulis cyanopleura*
- Thalassoma pyrrhovinctum* Jenkins, 1901: *T. duperrey*
- Julis quadricolor* Lesson, 1828: *Thalassoma purpureum*
- Choerodon quadrifasciatus* Yu, 1968: *C. schoenleinii*
- Labrus quadrilineatus* Rüppell, 1835: *Larabicus quadrilineatus*
- Labrus quadrimaculatus* Risso, 1827: *Labrus mixtus*
- Xiphochilus quadrimaculatus* Günther, 1880: *Xiphochilus typus*
- Labrus quindecimaculeatus* Lacepède, 1801:
- Thalassoma hardwicke*
- Cheilinus quinquecinctus* Rüppell, 1835: *Cheilinus fasciatus*
- Scarus quinquefasciatus* Bennett [JW], 1830:
- Hemigymnus fasciatus*
- Crenilabrus quinqueaculatus* Risso, 1827: *Symphodus roissali*
- Labrus quinqueaculatus* Bloch, 1792: *nomen dubium*
- Scarus quinquevittatus* Lay & Bennett, 1839:
- Thalassoma quinquevittatum*
- Cheilinus radiatus* Val., 1840: *Oxycheilinus digramma*
- Labrus radiatus* Linnaeus, 1758: *Halichoeres radiatus*
- Sparus radiatus* Bloch & Schneider 1801: *Oxycheilinus digramma*
- Xyrichtys rajagopalani* Venkataramanujam et al., 1987:
- Xyrichtys rajagopalani*
- Labrus ramentosus* Forsskal, 1775: *Pteragogus flagellifer*
- Cheilio ramosus* Jenyns, 1842: *Cheilio inermis*
- Cirrhilabrus randalli* Allen, 1995: *Cirrhilabrus randalli*
- \* *PlatyGLOSSUS ransonneti* Steindachner, 1870:
- Halichoeres nigrescens*
- Julis rapan* Montrouzier, 1857: *Thalassoma lunare*
- Julis reichei* Bleeker, 1858: *Halichoeres nebulosus*
- Hemicoris remedijs* Jenkins, 1901: *Coris venusta*
- Julis renardi* Bleeker, 1851: *Stethojulis strigiventer*
- Cossyphus reticulatus* Val., 1839: *Semicossyphus reticulatus*
- Labrus reticulatus* Bonnaterre, 1788: *Symphodus ocellatus*
- Labrus reticulatus* Lowe, 1839: *Labrus bergylta*
- Labrus reticulatus* Walbaum, 1792: *nomen dubium*
- Malapterus reticulatus* Val., 1839: *Malapterus reticulatus*
- \* *PlatyGLOSSUS reticulatus* Cartier, 1874: *Halichoeres argus*
- Coris rex* Ramsay & Ogilby, 1886: *Coris sandageri*
- Labrichthys rex* De Vis, 1885: *Pseudolabrus guentheri*
- Cheilinus rhodochrous* Playfair & Günther, 1867:
- Oxycheilinus rhodochrous*
- Hologymnosus rhodonotus* Randall & Yamakawa, 1988:
- Hologymnosus rhodonotus*
- Cirrhilabrus rhomboidalis* Randall, 1988: *C. rhomboidalis*
- Labrichthys richardsoni* Castelnau, 1872: *Notolabrus tetricus*
- Lepidaplois richardsoni* Fowler, 1908: *Bodianus bilunulatus*
- Pseudolabrus richardsonii* Steindachner, 1867: *P. guentheri*
- Halichoeres richmondi* Fowler & Bean, 1928: *H. richmondi*
- Crenilabrus rissoi* Val., 1839: *Symphodus ocellatus*
- Cheilinus rivulatus* Val., 1840: *Cheilinus trilobatus*
- Semicossyphus robecchii* Steindachner & Bellotti, 1887:
- Semicossyphus reticulatus*
- Thalassoma robertsoni* Allen, 1995: *Thalassoma robertsoni*
- PlatyGLOSSUS robinsoni* Gilchrist & Thompson, 1914:
- Nelabrichthys ornatus*
- Xiphochilus robustus* Günther, 1862: *Choerodon robustus*
- Lutjanus roissali* Risso, 1810: *Symphodus roissali*
- Acantholabrus romeritus* Val., 1843: *Centrolabrus trutta*
- Labrus rone* Ascanius, 1772: *Symphodus melops*
- Coris rosea* Vaillant & Sauvage, 1875: *Coris ballieui*
- Julis rosea* Quoy & Gaimard, 1834: *Hologymnosus doliatus*
- Cirrhilabrus roseafascia* Randall & Lubbock, 1982:
- Cirrhilabrus roseafascia*
- Labrichthys roseipunctata* Hutton, 1880: *Pseudolabrus miles*
- Coris roseoviridis* Randall, 1999: *Coris roseoviridis*
- \* *Cheilinus roseus* Val., 1840: *Oxycheilinus digramma*
- PlatyGLOSSUS roseus* Day, 1888: *Halichoeres nigrescens*
- Xyrichtys rosipes* Jordan & Gilbert, 1884: *X. novacula*
- \* *Cheilinus rostratus* Cartier, 1874: *Cheilinus undulatus*
- Lutjanus rostratus* Bloch, 1791: *Symphodus rostratus*
- Julis rubecula* Richardson, 1843?: *Pseudolabrus miles*
- Ctenolabrus rubellio* Richardson, 1845: *Pteragogus aurigarius*
- Labrus rubellio* Walbaum 1792: *Symphodus cinereus*
- \* *Labrus rubens* Bloch & Schneider, 1801: *Symphodus ocellatus*
- Lutjanus ruber* Rafinesque, 1810: *Symphodus ocellatus*
- Choerops rubescens* Günther, 1862: *Choerodon rubescens*
- Lutjanus rubescens* Risso, 1810: *Symphodus rostratus*
- Labrichthys rubicunda* Macleay, 1881: *Pseudolabrus rubicundus*
- Choerodon rubidus* Scott, 1959: *Choerodon schoenleinii*
- Julis rubiginosus* Richardson, 1843?: *Pseudolabrus miles*
- Labrus rubiginosus* Richardson, 1846: *Pseudolabrus sieboldi*
- Labrus rubiginosus* Risso 1827: *nomen dubium*
- Labrus rubiginosus* Temminck & Schlegel, 1846 (in part):
- Pseudolabrus eoethinus*
- Labrus rubiginosus* Temminck & Schlegel, 1846 (in part):
- Pseudolabrus sieboldi*
- Labrichthys rubra* Castelnau, 1875: *Notolabrus parilus*
- Halichoeres rubricephalus* Kuitert & Randall, 1995:
- Halichoeres rubricephalus*
- Cirrhilabrus rubrimarginatus* Randall, 1992: *C. rubrimarginatus*
- Cirrhilabrus rubripinnis* Randall & Carpenter, 1980:
- Cirrhilabrus rubripinnis*
- Cirrhilabrus rubrisquamis* Randall & Emery, 1983:
- Cirrhilabrus rubrisquamis*
- Cirrhilabrus rubriventralis* Springer & Randall, 1974:
- Cirrhilabrus rubriventralis*
- Anampses rubrocaudatus* Randall, 1958: *A. chrysocephalus*
- Labroides rubrolabiatus* Randall, 1958: *L. rubrolabiatus*



- Labrus rubrolineatus* Lacepède, 1801: *Bodianus macrourus*  
*Stethojulis rubromaculatus* Scott, 1959: *S. bandanensis*  
*Anampses rubroviridis* Liénard in Sauvage, 1891: *A. viridis*  
*Terelabrus rubrovittatus* Randall & Fourmanoir, 1998:  
*Terelabrus rubrovittatus*  
*Julis rueppellii* Klunzinger, 1871: *Thalassoma rueppellii*  
*Novacula rufa* Day, 1873: *Xyrichtys cyanifrons*  
*Labrus rufus* Linnaeus, 1758: *Bodianus rufus*  
*Labrus rufus* Rathke, 1837: *Labrus viridis*  
*Trochocopus rufus* Macleay, 1878: *Bodianus frenchii*  
*Labrus rupestris* Linnaeus, 1758: *Ctenolabrus rupestris*  
*Julis ruppelii* Bennett, 1831: *Coris aygula*  
*Julis ruptus* Poey, 1860: *Halichoeres garnoti*  
*Bodianus russelli* Gomon & Randall, 1975: *Polylepion russelli*  
*Suezichthys russelli* Randall, 1981: *Suezichthys russelli*  
*Julis sanctaehelenae* Val., 1839: *Thalassoma sanctaehelenae*  
*Novacula sanctaehelenae* Günther, 1868:  
*Xyrichtys sanctaehelenae*  
*Cymolutes sandeyeri* Hector, 1884: *Coris sandageri* (Hector)  
*Gomphosus sandvicensis* Günther, 1862: *Gomphosus varius*  
*Cheilinus sanguineus* Val., 1840: *Cheilinus oxycephalus*  
*Cirrhilabrus sanguineus* Cornic, 1987: *C. sanguineus*  
\* *Labrus sanguineus* Nardo 1824: *Symphodus tinca*  
*Verruculus sanguineus* Jordan & Evermann, 1903:  
*Bodianus sanguineus*  
*Trochocopus sanguinolentus* De Vis, 1883: *Bodianus perditio*  
*Labrus saphyrinus* Walbaum 1792: *Labrus viridis*  
*Labrus saxatilis* Risso, 18: *Labrus viridis*  
*Labrus saxorum* Val., 1839: *Labrus merula*  
*Julis scapularis* Bennett, 1832: *Halichoeres scapularis*  
*Labrus scarus* Linnaeus, 1758: *nomen dubium*  
*Coris schauinslandii* Steindachner, 1900: *Coris ballieui*  
\* *Crenilabrus schemberianus* Gulia, 1861: *Symphodus ocellatus*  
*Cossyphus schoenleinii* Val., 1839: *Choerodon schoenleinii*  
*Julis schroederii* Bleeker, 1858: *Coris batuensis*  
*Julis schwanefeldii* Bleeker, 1853: *Thalassoma hardwicke*  
*Julis schwarzi* Bleeker, 1847: *Halichoeres papilionaceus*  
\* *Xyrichtys sciistius* Jordan & Thompson 1914:  
*Novaculichthys woodi*  
*Labrus scina* Forsskal, 1775?: *Symphodus rostratus*  
*Cirrhilabrus scottorum* Randall & Pyle, 1989: *C. scottorum*  
*Labrus scrofa* Val., 1839: *Bodianus scrofa*  
*Halichoeres sebae* Kner, 1860: *Stethojulis trilineata*  
*Julis sebanus* Val., 1839: *Stethojulis trilineata*  
*Halichoeres sellifer* Gilbert, 1890: *Halichoeres nicholsi*  
*Coris semicincta* Ramsay, 1883: *Coris picta*  
*Julis semicinctus* Ayres, 1859: *Halichoeres semicinctus*  
*Julis semicoeruleus* Rüppell, 1835: *Thalassoma purpureum*  
*Julis semidecorata* Lesson, 1828: *Halichoeres hortulanus*  
*Labrus semidiscus* Lacepède, 1801: *Hologymnosus annulatus*  
*Julis semifasciatus* Val., 1839: *Thalassoma hardwicke*  
*Labrichthys semifasciatus* Rendahl, 1921:  
*Pseudolabrus semifasciatus*  
*Labrus semilunatus* Lacepède 1804?: *Thalassoma lutescens*  
*Coris semipartita* Günther, 1862: *Hologymnosus annulatus*  
*Julis semipunctatus* Rüppell, 1835: *Coris aygula*  
*Labrus semiruber* Lacepède, 1801: *Bodianus rufus*  
*Thalassoma septemfasciata* Scott, 1959: *T. septemfasciatum*  
*Labrus serpentinus* Bonnaterre, 1788: *Symphodus mediterraneus*  
*Crenilabrus serranoides* Gulia, 1861: *nomen dubium*  
*Crenilabrus serranus* Gulia, 1861: *nomen dubium*  
*Halichoeres sexfasciatus* Rüppell, 1835: *Hemigymnus fasciatus*  
*Labrichthys sexlineatus* De Vis, 1885: *Pseudolabrus guentheri*  
*Novacula sexmaculata* Val. 1840: *Xyrichtys pentadactylus*  
\* *Halichoeres sexmaculatus* Fowler, 1946:  
*Xenajulis margaritaceus*  
*Pseudolabrus sieboldi* Mabuchi & Nakabo, 1997: *P. sieboldi*  
*Halichoeres signifer* Randall & Earle, 1994: *H. signifer*  
*Iridio similis* Nichols, 1920: *Halichoeres maculipinna*  
*Labrus simus* Pallas 1814: *Symphodus cinereus*  
*Cheilinus sinuosus* Quoy & Gaimard, 1824: *C. trilobatus*  
*Thalassoma socorroense* Gilbert, 1890: *Thalassoma virens*  
*Suezichthys soelae* Russell, 1985: *Suezichthys soelae*  
*Cirrhilabrus solorensis* Bleeker, 1853: *C. solorensis*  
*Julis solorensis* Bleeker, 1853: *Halichoeres solorensis*  
*Julis souleyetii* Val., 1839: *Thalassoma trilobatum*  
*Julis speciosa* Risso, 1827: *Coris julis*  
*Diastodon speciosus* Bowdich, 1825: *Bodianus speciosus*  
*Crenilabrus spilogaster* Bleeker, 1854: *Pteragogus aurigarius*  
*Labrus spilonotus* Bennett, 1836: *Bodianus macrourus*  
*Novacula spilonotus* Bleeker, 1857: *Xyrichtys melanopus*  
*Cossyphus spilotes* Guichenot, 1865: *Bodianus diana*  
*Julis spilurus* Bleeker, 1851: *Halichoeres trimaculatus*  
*Xyrichtys splendens* Castelnau, 1855: *Xyrichtys splendens*  
*Julis squamismarginatus* Bowdich, 1825: *Thalassoma pavo*  
*Crenilabrus staitii* Nordmann, 1840: *Symphodus cinereus*  
*Thalassoma steindachneri* Jordan, 1890: *T. lucasanum*  
*Crenilabrus stejneri* Ishikawa, 1904: *Choerodon azurio*  
*Julis stellatus* Val., 1839: *Coris cuvieri*  
*Halichoeres stictus* Fowler, 1944: *Halichoeres nicholsi*  
*Halichoeres stigmasepia* Fowler, 1944: *Halichoeres nicholsi*  
*Halichoeres stigmaticus* Randall & Smith, 1982: *H. stigmaticus*  
*Novacula stockumii* Reuven, 1895?: *Xyrichtys twistii*  
*Epibulus striatus* Day, 1871: *Epibulus insidiator*  
*Minilabrus striatus* Randall & Dor, 1980: *M. striatus*  
*Julis strigiventer* Bennett, 1832: *Stethojulis strigiventer*  
*Lepidaplois strophodes* Jordan & Evermann, 1903:  
*Bodianus bilunulatus*  
*Thalassoma stuckiae* Whitley, 1959: *Gomphosus varius*  
*Bermudichthys subfurcatus* Nichols, 1920:  
*Thalassoma bifasciatum*  
*Labrus subfuscus* Bloch & Schneider 1801: *Coris julis*  
*Labrus subfuscus* Walbaum, 1792: *Tautoga onitis*  
*Choerodon sugillatum* Gomon, 1987: *Choerodon sugillatum*  
*Labrus suillus* Linnaeus, 1758?: *Ctenolabrus rupestris*  
*Lachnolaimus suillus* Cuvier, 1829: *Lachnolaimus maximus*  
*Julis sukl* Montrouzier, 1857: *Stethojulis trilineata*  
*Labrus syriacus* Bloch & Schneider, 1801: *Thalassoma pavo*  
*Julis taenianotus* Cuvier in Quoy & Gaimard, 1824:  
*Novaculichthys macrolepidotus*  
*Anampses taeniatus* Liénard in Sauvage, 1891:  
*Anampses caeruleopunctatus*  
*Coris taeniatus* Steindachner, 1863: *Coris julis*  
*Cossyphus taeniatus* Val., 1839: *Larabicus quadrilineatus*  
*Cossyphus taeniops* Peters, 1855: *Pteragogus taeniops*  
*Labrus taeniourus* Lacepède, 1801: *Novaculichthys taeniourus*  
*Labrus ?tagislem* Montrouzier, 1857: *nomen dubium*  
*Labrus tancoides* Lacepède, 1801: *Symphodus tinca*  
*Bodianus tanyokidus* Gomon & Madden, 1981: *B. tanyokidus*  
\* *Cymolutes tateyamaensis* Sakamoto, 1930: *C. torquatus*  
*Novaculichthys tattoo* Seale, 1901: *Novaculichthys woodi*  
*Labrus tautoga* Mitchell, 1815: *Tautoga onitis*  
*Julis temminckii* Bleeker, 1853: *Halichoeres leucurus*  
*Cirrhilabrus temminckii* Bleeker, 1853: *C. temminckii*  
*Novacula temporalis* Regan, 1905: *Xyrichtys pavo*  
*PlatyGLOSSUS tenuispinis* Günther, 1862: *Halichoeres tenuispinis*  
*Stethojulis terina* Jordan & Snyder, 1902: *S. interrupta*  
*Labrus tessellatus* Bloch, 1792: *Symphodus melops*  
*Novacula tessellata* Val., 1840: *Xyrichtys pavo*  
*Labrus tetraodon* Bloch & Schneider 1801: *nomen dubium*  
*Pseudocheilinus tetrataenia* Schultz, 1960: *P. tetrataenia*  
*Cheilinus tetrazona* Bleeker, 1853: *Cheilinus trilobatus*  
*Novacula tetrazona* Bleeker, 1859: *Xyrichtys pavo*  
*Labrichthys tetrica* var *fuscipinnis* Klunzinger, 1872:  
*Notolabrus tetricus*  
*Labrichthys tetrica* var *ocellata* Klunzinger, 1880?:  
*Notolabrus tetricus*  
*Labrichthys tetrica* var *tigripinnis* Klunzinger, 1872:  
*Notolabrus tetricus*  
*Labrus tetricus* Richardson, 1840: *Notolabrus tetricus*



- Doratonotus thalassinus* Jordan & Gilbert, 1884: *D. megalepis*  
*Julis thirsites* Richardson, 1846: *Parajulis poecilepterus*  
*Bodianus thoracotaeniatus* Yamamoto, 1982: *B. thoracotaeniatus*  
*Crenilabrus tigrinus* Risso, 1827: *Symphodus roissali*  
*Julis timorensis* Bleeker, 1852: *Halichoeres timorensis*  
*Crenilabrus tinca* Val., 1839: *Symphodus doderleini*  
*Labrus tinca* Linnaeus, 1758: *Symphodus tinca*  
*Labrus tineia* Forsskal, 1775: *nomen dubium*  
*Anampses tinkhami* Fowler, 1946: *A. caeruleopunctatus*  
*Paracheilinus togeanensis* Kuitert & Allen, 1999:  
*Paracheilinus togeanensis*  
*Cirrhilabrus tonozukai* Allen & Kuitert, 1999:  
*Cirrhilabrus tonozukai*  
*Pseudolabrus torotai* Russell & Randall, 1981: *P. torotai*  
\* *Labrus torquatus* Walbaum, 1792: *Thalassoma bifasciatum*  
*Xyrichtys torquatus* Val., 1840: *Cymolutes torquatus*  
*Choerodon transversalis* Whitley, 1956: *C. graphicus*  
*Cossyphus tredecimspinosus* Günther, 1862: *Bodianus speciosus*  
\* *Halichoeres tremebundus* Jordan & Snyder, 1902: *H. bleekeri*  
*Gomphosus tricolor* Quoy & Gaimard, 1824: *G. varius*  
*Pseudojulis trifasciatus* Weber, 1913:  
*Thalassoma amblycephalum*  
*Labrus trilineatus* Bloch & Schneider, 1801: *Stethojulis trilineata*  
*Lepidaplois trilineatus* Fowler, 1934: *Bodianus trilineatus*  
*Julis trilobata* var  $\beta$  Günther, 1862: *Thalassoma purpureum*  
*Cheilinus trilobatus* Lacepède, 1801: *Cheilinus trilobatus*  
*Labrus trilobatus* Lacepède, 1801: *Thalassoma trilobatum*  
*Cheilinus trilobus* Schinz in Cuvier, 1822: *C. trilobatus*  
*Coris trimaculata* Ogilby, 1888: *Coris sandageri*  
*Julis trimaculata* Quoy & Gaimard, 1834:  
*Halichoeres trimaculatus*  
*Julis trimaculata* Val., 1839: *Novaculichthys macrolepidotus*  
*Julis trimaculatus* Rüppell, 1835: *Thalassoma lunare*  
*Labrus trimaculatus* Bonnaterre, 1788: *Labrus mixtus*  
*Labrus trimaculatus* Gmelin 1789: *Labrus mixtus*  
*Wetmorella triocellata* Schultz & Marshall, 1954:  
*Wetmorella nigropinnata*  
*Suezichthys tripunctatus* Randall & Kotthaus, 1977:  
*S. notatus* (in part)  
*Suezichthys tripunctatus* Randall & Kotthaus, 1977:  
*S. russelli* (in part)  
*Halichoeres trispilus* Randall & Smith, 1982: *H. trispilus*  
*Xyrichtys trivittatus* Randall & Cornish, 2000: *X. trivittatus*  
*Stethojulis trossula* Jordan & Snyder, 1902: *S. interrupta*  
*Lepidaplois trotteri* Fowler & Bean, 1923: *Bodianus loxozonus*  
*Julis truncatus* Cartier, 1874: *Thalassoma lunare*  
*Crenilabrus trutta* Lowe, 1834: *Centrolabrus trutta*  
*Crenilabrus trutta* var *unicolor* Lowe, 1838: *Centrolabrus trutta*  
*Julis turcica* Risso, 1827: *Thalassoma pavo*  
*Julis turcica* var *lemniscata* Lowe, 1843: *Thalassoma pavo*  
*Julis turcica* var *torquata* Lowe, 1843: *Thalassoma pavo*  
*Labrus turdus* Linnaeus, 1758: *Labrus viridis*  
*Anampses twistii* Bleeker, 1856: *Anampses twistii*  
*Novacula twistii* Bleeker, 1856: *Xyrichtys twistii*  
*Xiphocheilos typus* Bleeker, 1856: *Xiphocheilus typus*  
*PlatyGLOSSUS ubayensis* Cartier, 1874: *Halichoeres vrolikii*  
*Cheilio udanad* Montrouzier, 1857: *Cheilio inermis*  
*Hemipteronotus umbrilatus* Jenkins, 1901: *Xyrichtys umbrilatus*  
*Julis umbrostigma* Rüppell, 1835: *Thalassoma purpureum*  
*Cheilinus undulatus* Rüppell, 1835: *Cheilinus undulatus*  
*Gomphosus undulatus* Streets, 1877: *Gomphosus varius*  
*Labrichthys unicolor* Castelnau, 1875: *Notolabrus parilus*  
*Labrus unicolor* Bloch & Schneider 1801: *nomen dubium*  
*Trochocopus unicolor* Günther, 1876: *Achoerodus gouldii*  
*Cheilinus unifasciatus* Streets, 1877: *Oxycheilinus unifasciatus*  
*Cossyphus unilineatus* Guichenot, 1847: *Labrichthys unilineatus*  
*Julis unimaculata* Lowe, 1840: *Thalassoma pavo*  
*Julis unimaculata* var *lineolata* Lowe, 1840: *Thalassoma pavo*  
*Julis unimaculata* var *taeniata* Lowe, 1840: *Thalassoma pavo*  
*Choerops unimaculatus* Cartier, 1874: *Choerodon schoenleinii*  
\* *Choerops unimaculatus* De Vis, 1885: *Choerodon cyanodus*  
*Cossyphus unimaculatus* Günther, 1862: *Bodianus unimaculatus*  
*Labrus unimaculatus* Gmelin, 1789: *Symphodus mediterraneus*  
*Ctenolabrus uninotatus* Val., 1839: *Tautogolabrus adspersus*  
*Xyrichtys uniozellatus* Agassiz in Spix & Agassiz, 1829:  
*Xyrichtys novacula*  
*Julis urostigma* Bleeker, 1853: *Thalassoma hardwicke*  
*LeptoJulis urostigma* Randall, 1996: *LeptoJulis urostigma*  
*Julis vanikorensis* Quoy & Gaimard, 1834:  
*Novaculichthys taeniourus*  
*Labrus variabilis* Thompson, 1837: *Labrus bergylta*  
*Macropharyngodon varialvus* Smith, 1957: *M. bipartitus*  
*Coris variegata* Ramsay & Ogilby, 1887: *Coris aygula*  
*Halichoeres variegatus* Rüppell, 1835: *Coris variegata*  
*Labrus variegatus* Gmelin, 1789: *Labrus mixtus*  
*Labrus variegatus* Nardo, 1824: *nomen dubium*  
*Anampses variolatus* Ogilby, 1889: *Anampses elegans*  
*Gomphosus varius* Lacepède, 1801: *Gomphosus varius*  
*Labrus varius* Linnaeus 1758: *Labrus mixtus*  
*Odax varius* Val., 1840: *Pseudodax moluccanus*  
*Cheilinus venosus* Val., 1840: *Oxycheilinus mentalis*  
*Labrus venosus* Gmelin, 1789: *Symphodus ocellatus*  
*Labrus venosus* Walbaum, 1792: *Symphodus ocellatus*  
\* *Julis ventralis* De Vis, 1885: *Thalassoma lunare*  
*Xyrichtys ventralis* Bean, 1891: *Xyrichtys splendens*  
*Coris venusta* Vaillant & Sauvage, 1875: *Coris venusta*  
*Choerops venustus* De Vis, 1884: *Choerodon venustus*  
\* *Pseudojulis venustus* Jenkins & Evermann, 1889:  
*Halichoeres semicinctus*  
*Xyrichtys venustus* Poey, 1876: *Xyrichtys martinicensis*  
*Iniistius verater* Jenkins, 1901: *Xyrichtys niger*  
*Labrus verdolidus* Rafinesque, 1810?: *Symphodus rostratus*  
*Xyrichtys vermiculatus* Poey, 1860: *Xyrichtys novacula*  
*Hemipteronotus verrens* Jordan & Evermann, 1902:  
*Xyrichtys verrens*  
*Lutjanus verres* Bloch, 1791: *Bodianus rufus*  
*Julis verticalis* Smith & Swain, 1882: *Thalassoma ballieu*  
*Guntheria [sic] vestalis* Whitley, 1958: *Halichoeres trimaculatus*  
*Labrichthys vestita* Castelnau, 1872: *Notolabrus tetricus*  
*Labrus vetula* Bloch, 1792: *Labrus mixtus*  
\* *PlatyGLOSSUS vicinus* Günther, 1909: *Halichoeres trimaculatus*  
*Xyrichtys victori* Wellington, 1992: *Xyrichtys victori*  
*Labrus violaceus* Bloch & Schneider 1801: *Symphodus tinca*  
*Coryphaena virens* Linnaeus, 1766: *nomen oblitum*  
*Thalassoma virens* Gilbert, 1890: *Thalassoma virens*  
*Xyrichtys virens* Val., 1840: *nomen dubium*  
*Halichoeres virescens* Fourmanoir & Guézé, 1961: *H. marginatus*  
*Lutjanus virescens* Bloch, 1791: *Symphodus rostratus*  
*Acantholabrus viridis* Val., 1839: *Centrolabrus trutta*  
*Anampses viridis* Val., 1840: *Anampses viridis*  
*Cheilio viridis* Val., 1839: *Cheilio inermis*  
*Gomphosus viridis* Bennett [JW], 1830: *G. caeruleus*  
*Gomphosus viridis* Cuvier, 1829: *Gomphosus varius*  
*Heterochoerops viridis* Steindachner, 1866: *Achoerodus viridis*  
*Labrus viridis* Bloch 1791: *Thalassoma lunare*  
*Labrus viridis* Linnaeus, 1758: *Labrus viridis*  
*Pictilabrus viridis* Russell, 1988: *Pictilabrus viridis*  
*Choerodon vitta* Ogilby, 1910: *Choerodon vitta*  
*Xyrichtys vitta* Val., 1840: *Xyrichtys novacula*  
*Labrus vittatus* Walbaum, 1792: *Labrus mixtus*  
*Macropharyngodon vivianae* Randall, 1978: *M. vivianae*  
*Julis vrolikii* Bleeker, 1855: *Halichoeres vrolikii*  
*Julis vulgaris* Fleming, 1828: *Coris julis*  
*Julis vulgaris* Val., 1839: *Coris julis*  
*Julis vulgaris* Val., 1843: *Thalassoma pavo*  
*Cossyphus vulpinus* Richardson, 1850: *Bodianus vulpinus*  
*Cirrhilabrus walindi* Allen & Randall, 1996: *C. walindi*  
*Choerodon weberi* Ogilby, 1911: *Choerodon anchorago*  
*Xyrichtys wellingtoni* Allen & Robertson, 1995: *X. wellingtoni*



*Antonichthys wetmorelloides* Bauchot & Blanc, 1961:  
*Doratonotus megalepis*  
 \* *Julis whitmii* Günther, 1909: *Thalassoma lutescens*  
*Novaculichthys woodi* Jenkins, 1901: *Novaculichthys woodi*  
*Pseudojuloides xanthomos* Randall & Randall, 1981: *P. xanthomos*  
*Labropsis xanthonota* Randall, 1981: *Labropsis xanthonota*  
*Labroides xanthurus* Bleeker, 1856: *Diproctacanthus xanthurus*  
*PlatyGLOSSUS xanti* Karoli, 1882?: *Halichoeres bicolor*  
*Novacula xyrichthyoides* Bleeker, 1856: *Cymolutes praetextatus*  
*Julis yamashiroi* Schmidt, 1931: *Pseudocoris yamashiroi*  
*Acantholabrus yarellii* Val., 1839: *Labrus mixtus*  
*Choerops zamboangae* Seale & Bean, 1907:  
*Choerodon zamboangae*  
*Stethojulis zatima* Jordan & Seale, 1905: *S. interrupta*  
 \* *Crenilabrus zeraphinus* Gulia, 1861: *Symphodus ocellatus*  
*Labrus zeylanicus* Forster, 1781: *Thalassoma lunare*  
*Julis zeylonicus* Bennett, 1832: *Halichoeres zeylonicus*  
*Pseudojulis ziczac* De Vis, 1885: *Halichoeres scapularis*  
*Labrus zittoides* Rafinesque, 1810: *Labrus viridis*  
*Labrus zittus* Rafinesque, 1810: *Labrus viridis*  
*Sparus zonephorus* Lacepède, 1802: *Hemigymnus fasciatus*  
*Cheilinus zonurus* Jenkins, 1901: *Oxycheilinus unifasciatus*  
*Choerops zosterophorus* Bleeker, 1868: *Choerodon zosterophorus*  
*Cossyphus zosterophorus* Bleeker, 1857: *Bodianus anthioides*

## SCARIDAE

*Callyodon abacurus* Jordan & Seale, 1906: *Chlorurus japanensis*  
*Sparisoma abbotti* Fowler, 1915: *Sparisoma radians*  
*Sparus abildgaardi* Bloch, 1791: *Sparisoma chrysopteryum*  
*Scarus acutus* Poey, 1860: *Scarus vetula*  
*Scaridea aerea* Jordan & Snyder, 1907: *Calotomus zonarchus*  
*Scarus aeruginosus* Val., 1840: *Scarus ferrugineus*  
*Callyodon africanus* Smith, 1955: *Scarus rubroviolaceus*  
*Scarus ahula* Jenkins, 1901: *Chlorurus perspicillatus*  
*Cryptotomus albimarginatus* Fourmanoir & Guézé, 1961:  
*Calotomus carolinus*  
*Callyodon albipunctatus* Seale, 1910: *Chlorurus sordidus*  
*Scarus alternans* Val., 1840: *Scarus iseri*  
*Pseudoscarus altipinnis* Steindachner, 1879: *Scarus altipinnis*  
*Scarus amplus* Ranzani, 1842: *Sparisoma viride*  
*Callyodon apidentatus* Smith, 1956: *Scarus ghobban*  
*Pseudoscarus arabicus* Steindachner, 1902: *Scarus arabicus*  
*Scarus aracanga* Günther, 1862: *Scarus iseri*  
*Scarus arcuatus* Val., 1840: *Scarus rivulatus*  
*Scarus atomarius* Poey, 1861: *Sparisoma atomarium*  
*Scarus atrilunula* Randall & Bruce, 1983: *Chlorurus atrilunula*  
*Scarus atropectoralis* Schultz, 1958: *Scarus xanthopleura*  
*Pseudoscarus augustinus* Kossmann & Räuber, 1877:  
*Scarus ferrugineus*  
*Sparus aureoruber* Lacepède, 1802: *Sparisoma viride*  
*Scarus auritus* Val., 1840: *Leptoscarus vaigiensis*  
*Scarus aurofrenatus* Val., 1840: *Sparisoma aurofrenatum*  
*Callyodon auropunctatus* Val., 1840: *Nicholsina usta*  
*Scarus axillaris* Steindachner, 1878: *Sparisoma rubripinne*  
*Scarus azureus* Meek & Hildebrand, 1928: *Scarus ghobban*  
*Scaridea balia* Jenkins, 1903: *Calotomus zonarchus*  
*Scarus balinensis* Bleeker, 1849: *Scarus psittacus*  
*Scarus barborus* Jordan & Evermann, 1903:  
*Chlorurus perspicillatus*  
*Scarus bataviensis* Bleeker, 1857: *Scarus psittacus*  
*Scarus bennetti* Val., 1840: *Scarus dubius*  
*Cryptotomus beryllinus* Jordan & Swain, 1884: *Nicholsina usta*  
*Scarus bicolor* Rüppell, 1829: *Cetoscarus bicolor*  
*Callyodon bipallidus* Smith, 1955: *Chlorurus sordidus*  
*Callyodon bleekeri* de Beaufort, 1940: *Chlorurus bleekeri*  
*Callyodontichthys bleekeri* Steindachner, 1863:  
*Sparisoma radians*  
*Scarus blochii* Val., 1840: *Chlorurus japanensis*

*Scarus bollmani* Jordan & Evermann, 1887: *Scarus taeniopterus*  
*Callyodon borborus* Jordan & Evermann, 1905:  
*Chlorurus perspicillatus*  
*Scarus bottae* Val., 1840: *Leptoscarus vaigiensis*  
*Callyodon bowersi* Snyder, 1909: *Chlorurus bowersi*  
*Scarus brachialis* Poey, 1861: *Sparisoma chrysopteryum*  
*Callyodon brachysoma* Bleeker, 1861: *Calotomus carolinus*  
*Pseudoscarus brevifilis* Günther, 1909: *Scarus altipinnis*  
*Scarus brighami* Bryan & Herre, 1903: *Chlorurus frontalis*  
*Scarus brunneus* Jenkins, 1901: *Scarus psittacus*  
*Scarus caeruleus* Val., 1840: *Scarus ferrugineus*  
*Pseudoscarus californiensis* Pellegrin, 1901: *Scarus ghobban*  
*Scarus calus* Fowler, 1904: *Scarus rubroviolaceus*  
*Scarus canariensis* Val., 1838: *Sparisoma cretense*  
*Scarus caninus* Gronow in Gray, 1854: *nomen dubium*  
*Pseudoscarus cantori* Bleeker, 1861: *Scarus ghobban*  
*Scarus capistratoides* Bleeker, 1847: *Chlorurus capistratoides*  
*Scarus capistratus* Val., 1840: *nomen dubium*  
*Scarus capitaneus* Cuvier, 1829: *Chlorurus enneacanthus*  
*Xanodon carifanus* Smith, 1956: *Scarus psittacus*  
*Callyodon carolinus* Val., 1840: *Calotomus carolinus*  
*Scarus catesby* Lacepède, 1802: *Sparisoma viride*  
*Pseudoscarus caudofasciatus* Günther, 1862:  
*Scarus caudofasciatus*  
*Scarus celebicus* Bleeker, 1854: *Chlorurus sordidus*  
*Scarus chadri* Lacepède, 1802?: *Scarus niger*  
*Scarus chameleon* Choat & Randall, 1986: *S. chameleon*  
*Pseudoscarus chinensis* Steindachner, 1867: *Scarus chinensis*  
*Scarus chloris* Bloch & Schneider 1801: *Sparisoma chrysopteryum*  
*Scarus chlorodon* Jenyns, 1842: *Scarus prasiognathos*  
*Calliodon chlorolepis* Richardson, 1845: *Leptoscarus vaigiensis*  
*Pseudoscarus chloromelas* Playfair & Günther, 1867:  
*Chlorurus cyanescens*  
*Scarus chrysopomus* Bleeker, 1847: *Scarus quoyi*  
*Scarus chrysopterus* Bloch & Schneider, 1801:  
*Sparisoma chrysopteryum*  
*Scarus circumnotatus* Poey, 1861?: *Sparisoma rubripinne*  
*Scarus coccineus* Bloch & Schneider 1801: *Sparisoma viride*  
*Scarus coelestinus* Val., 1840: *Scarus coelestinus*  
*Coryphaena coerulea* Bloch, 1786: *Scarus coeruleus*  
*Scarus coeruleopunctatus* Rüppell, 1835: *Leptoscarus vaigiensis*  
*Pseudoscarus collana* var *eques* Steindachner, 1903:  
*Scarus fuscopurpureus*  
*Scarus collana* Rüppell, 1835: *Scarus collana*  
*Scarus collaris* Val., 1840: *Scarus collana*  
*Callyodon compressus* Osburn & Nichols, 1916:  
*Scarus compressus*  
*Cryptotomus crassiceps* Bean, 1906: *Cryptotomus roseus*  
*Callyodon cretensis* Bloch, 1789: *nomen dubium*  
*Labrus cretensis* Linnaeus, 1758: *Sparisoma cretense*  
*Scarus croicensis* Bloch, 1790: *Scarus iseri*  
*Scarus cruentatus* Val., 1840: *nomen dubium*  
*Scarus cuzamilae* Bean, 1891: *Scarus vetula*  
*Scarus cyanescens* Val., 1840: *Chlorurus cyanescens*  
*Scarus cyanognathus* Bleeker, 1847: *Scarus tricolor*  
*Callyodon cyanogrammus* Jordan & Seale, 1906:  
*Chlorurus sordidus*  
*Sparisoma cyanolene* Jordan & Swain, 1884: *Sparisoma radians*  
*Scarus cyanotaenia* Bleeker, 1854?: *Chlorurus bleekeri*  
*Scarus cyanurus* Val., 1840: *Hipposcarus harid*  
*Calotomus cyclurus* Jenkins, 1903: *Calotomus japonicus*  
*Scarus cypho* Seale, 1901: *Scarus schlegeli*  
*Scarus denticulatus* Lacepède, 1802: *nomen dubium*  
*Xenoscarus denticulatus* Evermann & Radcliffe, 1917:  
*Nicholsina denticulata*  
*Scarus dentiens* Poey, 1861: *Nicholsina usta*  
*Scarus diadema* Val., 1840: *Scarus iseri*  
*Scarus dimidiatus* Bleeker, 1859: *Scarus dimidiatus*  
*Scarus distinctus* Poey, 1861: *Sparisoma aurofrenatum*  
*Scarus dubius* Bennett, 1828: *Scarus dubius*



- Scarus dubius* Hildebrand, 1946: *Scarus perrico*  
*Scarus dussumieri* Val., 1840: *Scarus ghobban*  
*Callyodon elerae* Jordan & Seale, 1907: *Scarus tricolor*  
*Sparisoma elongatum* Meek & Hildebrand, 1928:  
*Sparisoma chrysopteron*  
*Scarus emarginatus* Poey, 1868?: *Sparisoma rubripinne*  
*Scarus emblematicus* Jordan & Rutter, 1897: *Scarus taeniopterus*  
*Scarus enneacanthus* Lacepède, 1802: *Chlorurus enneacanthus*  
*Callyodon erythacus* Jordan & Seale, 1906: *Scarus psittacus*  
*Scarus erythrinoides* Guichenot, 1865: *Sparisoma aurofrenatum*  
*Scarus erythron* Val., 1840: *Chlorurus sordidus*  
*Scarus evermanni* Jordan, 1887: *nomen dubium*  
*Pseudoscarus falcipinnis* Playfair, 1868: *Scarus falcipinnis*  
*Scaridea farri* Jordan [EK], 1925: *Calotomus zonarchus*  
*Scarus fasciatus* Val., 1840: *Scarus rivulatus*  
*Scarus fehlmanni* Schultz, 1969: *Scarus ghobban*  
*Scarus ferrugineus* Forsskål, 1775: *Scarus ferrugineus*  
*Scarus festivus* Val., 1840: *Scarus festivus*  
*Pseudoscarus filholi* Sauvage, 1880: *Scarus psittacus*  
*Scarus flavescens* Bloch & Schneider 1801:  
*Sparisoma chrysopteron*  
*Scarus flavipectoralis* Schultz, 1958: *Scarus flavipectoralis*  
*Pseudoscarus flavipinnis* De Vis, 1885: *Scarus ghobban*  
*Pseudoscarus flavolineatus* Alleyne & Macleay, 1877:  
*Scarus rivulatus*  
*Pseudoscarus flavomaculatus* Bliss, 1883: *Scarus scaber*  
*Pseudoscarus flavomarginatus* Kner, 1865: *Scarus niger*  
*Scarus flavomarginatus* Val., 1840: *Scarus iseri*  
*Scarus formosus* Val., 1840: *Scarus dubius*  
*Pseudoscarus forskalii* Klunzinger, 1871: *Scarus psittacus*  
*Pseudoscarus forskalii fuscopurpureus* Klunzinger, 1871:  
*Scarus fuscopurpureus*  
*Pseudoscarus forsteni* Bleeker, 1861: *Scarus forsteni*  
*Scarus forsteri* Val., 1840: *Scarus psittacus*  
*Xanodon fowleri* Smith, 1956: *Scarus russelii*  
*Scarus frenatus* Lacepède, 1802: *Scarus frenatus*  
*Scarus frondosus* Agassiz, 1829: *Sparisoma viride*  
*Pseudoscarus frontalis* Macleay, 1883: *Scarus rubroviolaceus*  
*Scarus frontalis* Val., 1840: *Chlorurus frontalis*  
*Callyodon fumifrons* Jordan & Seale, 1906: *Scarus dimidiatus*  
*Scarus fuscocaudalis* Randall & Myers, 2000:  
*Scarus fuscocaudalis*  
*Callyodon fuscocuneus* Fowler, 1935: *Scarus ghobban*  
*Pseudoscarus fuscus* De Vis, 1885: *Scarus globiceps*  
*Scarus galena* Jordan [EK], 1925: *Scarus psittacus*  
*Pseudoscarus garretti* Günther, 1909: *Scarus ghobban*  
*Scarus genazonatus* Randall & Bruce, 1983:  
*Chlorurus genazonatus*  
*Callyodon genistriatus* Val., 1840: *Calotomus carolinus*  
*Scarus ghardaensis* Bebars, 1978: *Scarus collana*  
*Scarus ghobban* Forsskål, 1775: *Scarus ghobban*  
*Calliodon gibbosus* Bloch & Schneider 1801: *Scarus coeruleus*  
*Scarus gibbosus* Bleeker, 1862: *nomen nudum*  
*Scarus gibbus* Rüppell, 1829: *Chlorurus gibbus*  
*Scarus gilberti* Jenkins, 1901: *Scarus psittacus*  
*Scarus globiceps* Val., 1840: *Scarus globiceps*  
*Pseudoscarus gnathodus* Poey, 1867: *Scarus vetula*  
*Pseudoscarus godeffroyi* Günther, 1909: *Scarus niger*  
*Pseudoscarus goldiei* Macleay, 1883: *Chlorurus sordidus*  
*Pseudoscarus gracilis* Steindachner, 1869: *Scarus gracilis*  
*Sparisoma griseorubra* Cervigón, 1982: *S. griseorubra*  
*Scarus guacamaia* Cuvier, 1829: *Scarus guacamaia*  
*Scarus guttatus* Bloch & Schneider, 1801: *Scarus ghobban*  
*Scarus gymnognathos* Bleeker, 1853: *Chlorurus sordidus*  
*Callyodon hadji* Seale, 1910: *Scarus quoyi*  
*Scarus harid* Forsskål, 1775: *Hipposcarus harid*  
*Hipposcarus harid vexillus* Smith, 1959: *Hipposcarus harid*  
*Scarus haridoides* Bleeker, 1855: *Scarus ghobban*  
*Pseudoscarus heliotropinus* Bryan, 1906: *Scarus rubroviolaceus*  
*Scarus hertit* Ehrenberg, 1840: *Scarus psittacus*  
*Scarus hildebrandi* Kanazawa, 1952: *Scarus perrico*  
*Pseudoscarus hoefleri* Steindachner, 1881: *Scarus hoefleri*  
*Sparus holocyaneus* Lacepède, 1802: *Scarus coeruleus*  
*Scarus hoplomystax* Cope, 1871: *Sparisoma radians*  
*Callyodon hornosteli* Fowler, 1925: *Scarus psittacus*  
*Xenoscarus hubbsi* Harry, 1950: *Nicholsina denticulata*  
*Scarus humeralis* Poey, 1861: *nomen dubium*  
*Scarus hypselopterus* Bleeker, 1853: *Scarus hypselopterus*  
*Callyodon hypselosoma* Bleeker, 1855: *Calotomus spinidens*  
*Pseudoscarus iensis* Steindachner, 1887: *Scarus niger*  
*Callyodon ikan* Montrouzier, 1857: *nomen nudum*  
*Callyodon improvisus* Smith, 1956: *Scarus falcipinnis*  
*Scarus insulaesanctaecrucis* Bloch & Schneider, 1801:  
*Scarus iseri*  
*Calotomus irradians* Jenkins, 1901: *Calotomus carolinus*  
*Callyodon iseri* Bloch, 1789: *Scarus iseri*  
*Pseudoscarus ismailius* Kossmann & Räuber, 1877:  
*Scarus collana*  
*Scarus janthochir* Bleeker, 1853: *Scarus prasiognathos*  
*Scarus japanensis* Bloch, 1789: *Chlorurus japanensis*  
*Callyodon japonicus* Val., 1840: *Calotomus japonicus*  
*Scarus javanicus* Bleeker, 1854: *Scarus hypselopterus*  
*Scarus jenkinsi* Jordan & Evermann, 1903: *Scarus psittacus*  
*Pseudoscarus jonesi* Street, 1877: *Chlorurus frontalis*  
*Pseudoscarus jordani* Jenkins, 1901: *Scarus rubroviolaceus*  
*Scarus kakatoe* Lacepède, 1802: *nomen dubium*  
*Callyodon kelloggii* Jordan & Seale, 1906: *Scarus spinus*  
*Pseudoscarus knerii* Steindachner, 1887: *Scarus oviceps*  
*Scarus koputea* Randall & Choat, 1980: *Scarus koputea*  
*Scarus kraussi* Jordan [EK], 1925: *Chlorurus perspicillatus*  
*Pseudoscarus labiosus* Macleay, 1883: *Scarus psittacus*  
*Scarus lacerta* Val., 1840: *Scarus ghobban*  
*Scarus lacrimosus* Poey, 1861: *Sparisoma radians*  
*Callyodon latax* Jordan & Seale, 1906: *Chlorurus frontalis*  
*Scarus lateralis* Poey, 1860: *Sparisoma chrysopteron*  
*Callyodon latifasciatus* Seale & Bean, 1907: *Scarus tricolor*  
*Scarus latus* Val., 1840: *Hipposcarus harid*  
*Scarus lauia* Jordan & Evermann, 1903: *Scarus dubius*  
*Callyodon laxtoni* Whitley, 1948: *Scarus forsteni*  
*Callyodon lazulinus* Jordan & Seale, 1906: *Scarus oviceps*  
*Scarus lepidus* Jenyns, 1842: *Scarus globiceps*  
*Scarus leucostigma* Jordan, Evermann & Tanaka, 1927:  
*Chlorurus perspicillatus*  
*Scaridea leucotaeniata* Fowler, 1944: *Chlorurus sordidus*  
*Scarus limbatus* Val., 1840: *Scarus niger*  
*Calliodon lineatus* Bloch & Schneider, 1801: *Scarus iseri*  
*Callyodon lineolabius* Fowler & Bean, 1928: *Scarus niger*  
*Pseudoscarus lineolatus* Poey, 1867: *Scarus taeniopterus*  
*Petronason longicauda* Swainson, 1839: *Hipposcarus harid*  
*Scarus longiceps* Val., 1840: *Hipposcarus longiceps*  
*Scarus longipinnis* Randall & Choat, 1980: *S. longipinnis*  
*Sparisoma lorito* Jordan & Swain, 1884: *S. chrysopteron*  
*Scarus loro* Bloch & Schneider, 1801: *Scarus coeruleus*  
*Callyodon lunula* Snyder, 1908: *Scarus festivus*  
*Scarus lunulatus* Val., 1840: *nomen dubium*  
*Scarus lupus* Fowler, 1900: *Chlorurus frontalis*  
*Callyodon macleayi* Jordan & Seale in Seale, 1906:  
*Scarus rubroviolaceus*  
*Scarus macrocheilos* Bleeker, 1854: *Hipposcarus longiceps*  
*Scarus maculatus* Gronow in Gray, 1854: *nomen dubium*  
*Pseudoscarus maculiceps* Peters, 1876: *omen dubium*  
*Scarus maculosus* Lacepède, 1802: *Scarus ghobban*  
*Pseudoscarus madagascariensis* Steindachner, 1887:  
*Scarus niger*  
*Scarus magrathii* Bennett, [JW], 1841: *Scarus ghobban*  
*Scarus makaravar* Montrouzier, 1857?: *Scarus niger*  
*Callyodon malindiensis* Smith, 1956: *Scarus virifucatus*  
*Callyodon maoricus* Jordan & Seale, 1906: *Scarus niger*  
*Callyodon margarita* Fowler, 1917: *Scarus iseri*  
*Pseudoscarus margaritus* Cartier, 1874: *Chlorurus sordidus*



- Scarus marshalli* Schultz, 1958: *Scarus ferrugineus*  
*Scarus maschalespilos* Bleeker, 1862: *Sparisoma chrysopteron*  
*Scarus mastax* Rüppell, 1829: *Hipposcarus harid*  
*Scarus melanotis* Bleeker, 1862: *Sparisoma viride*  
*Scarus mentalis* Val., 1840: *nomen dubium*  
*Scarus mertensii* Val., 1840: *nomen dubium*  
\* *Pseudoscarus microcheilos* Bleeker, 1861:  
*Chlorurus strongylocephalus*  
*Scarus micrognathos* Bleeker, 1847: *Scarus rivulatus*  
*Callyodon microps* Osburn & Nichols, 1916: *Scarus perrico*  
*Scarus microrhinos* Bleeker, 1854: *Chlorurus microrhinos*  
*Scarus miniatus* Jenkins, 1901: *Chlorurus perspicillatus*  
*Scarus miniofrenatus* Poey, 1861: *Sparisoma aurofrenatum*  
*Scarus moensi* Bleeker, 1860: *Scarus hypselopterus*  
*Callyodon moluccensis* Bleeker, 1861: *Calotomus spinidens*  
*Pseudoscarus moresbyensis* Macleay, 1883: *Scarus quoyi*  
*Scarus muricatus* Val., 1840: *Bolbometopon muricatum*  
*Callyodon mus* Smith, 1956: *Scarus tricolor*  
*Callyodon mutabilis* Gronow in Gray, 1854: *Scarus quoyi*  
*Scarus mutabilis* Lowe, 1838: *Sparisoma cretense*  
*Scarus naevius* Val., 1840: *Leptoscarus vaigiensis*  
*Pseudoscarus natalensis* Gilchrist & Thompson, 1909:  
*Scarus ghobban*  
*Scarus niger* Forsskål, 1775: *Scarus niger*  
*Pseudoscarus niger* var *viridis* Klunzinger, 1871: *Scarus niger*  
*Scarus nigrescens* Meek & Hildebrand, 1928: *Scarus vetula*  
*Scarus nigricans* Val., 1840: *Chlorurus sordidus*  
*Pseudoscarus nigripinnis* Playfair & Günther, 1867:  
*Cetoscarus bicolor*  
*Sparisoma niphobles* Jordan & Bollmann, 1889:  
*Sparisoma radians*  
*Scarus noyesi* Heller & Snodgrass, 1903: *Scarus ghobban*  
*Scarus nuchalis* Poey, 1860: *Scarus coeruleus*  
*Scarus nuchipunctatus* Val., 1840: *Scarus niger*  
*Pseudoscarus nudirostris* Alleyne & Macleay, 1877:  
*Scarus ghobban*  
*Scarus obishime* Randall & Earle, 1993: *Scarus obishime*  
*Scarus obscurus* Ehrenberg in Rüppell, 1829: *nomen nudum*  
*Scarus obtusus* Poey, 1860: *Scarus coeruleus*  
*Scarus ocellatus* Val., 1840: *Cetoscarus bicolor*  
*Scaridea octodon* Fowler, 1928: *Sparisoma radians*  
*Pseudoscarus oktodon* Bleeker, 1861?: *Scarus psittacus*  
*Callyodon oedema* Snyder, 1909: *Chlorurus oedema*  
*Callyodon ogos* Seale, 1910: *Scarus hypselopterus*  
*Scarus ophthalmistius* Herre, 1933: *Cetoscarus bicolor*  
*Scarus oviceps* Val., 1840: *Scarus oviceps*  
*Scarus ovifrons* Temminck & Schlegel, 1846: *Scarus ovifrons*  
*Scarus oxybrachius* Poey, 1868: *Sparisoma aurofrenatum*  
*Sparisoma pachycephalum* Longley, 1941: *S. rubripinne*  
*Scarus paluca* Jenkins, 1901: *Scarus rubroviolaceus*  
*Pseudoscarus papuensis* Macleay, 1883?: *Scarus ghobban*  
*Xanodon parvidens* Smith, 1956: *Scarus psittacus*  
*Scarus pectoralis* Val., 1840: *Scarus scaber*  
*Pseudoscarus pentazona* Bleeker, 1861: *Scarus schlegeli*  
*Scarus pepo* Bennett [JW], 1830: *Scarus ghobban*  
*Scarus perrico* Jordan & Gilbert, 1882: *Scarus perrico*  
*Scarus persicus* Randall & Bruce, 1983: *Scarus persicus*  
*Scarus perspicillatus* Steindachner, 1879:  
*Chlorurus perspicillatus*  
*Callyodon philippinus* Fowler, 1918: *Chlorurus japanensis*  
*Callyodon pindae* Smith, 1956: *Scarus falcipinnis*  
*Scarus pinguirostratus* Fowler, 1904: *Hipposcarus longiceps*  
*Pseudoscarus platodon* Seale, 1901: *Chlorurus sordidus*  
*Scarus pleianus* Poey, 1861: *Scarus guacamaia*  
*Pseudoscarus plumbeus* Bean, 1912: *Scarus coelestinus*  
*Scarus prasiognathos* Val., 1840: *Scarus prasiognathos*  
*Sparus prasiophthalmus* Richardson, 1843: *nomen nudum*  
*Scarus pronus* Fowler, 1900: *Scarus globiceps*  
*Scarus psittacus* Forsskål, 1775: *Scarus psittacus*  
*Scarus pulchellus* Rüppell, 1835: *Cetoscarus bicolor*  
*Scarus punctulatus* Val., 1840: *Scarus iseri*  
*Scarus purpureus* Val. 1840: *Chlorurus sordidus*  
*Callyodon pyrrhurus* Jordan & Seale, 1906:  
*Chlorurus japanensis*  
*Scarus pyrostethus* *australianus* Paradise, 1927:  
*Scarus ghobban*  
*Scarus pyrostethus* Richardson, 1846: *Scarus ghobban*  
*Scarus quadrispinosus* Val., 1840: *nomen dubium*  
*Scarus quoyi* Bleeker, 1853: *Chlorurus bleekeri*  
*Scarus quoyi* Val., 1840: *Scarus quoyi*  
*Scarus radians* Val., 1840: *Sparisoma radians*  
*Scarus randalli* Schultz, 1958: *Scarus frenatus*  
*Scarichthys rarotongae* Seale, 1906: *Calotomus carolinus*  
*Hemistoma reticulata* Swainson, 1839: *Scarus ghobban*  
*Calliodon retractus* Poey, 1868: *Nicholsina usta*  
*Chlorurus rhakoura* Randall & Anderson, 1997: *C. rhakoura*  
*Pseudoscarus rhoduropterus* Bleeker, 1861?: *Chlorurus troschellii*  
*Sparisoma rhomaleum* Meek & Hildebrand, 1928: *S. rubripinne*  
*Pseudoscarus richardsoni* Castelnau, 1875: *nomen dubium*  
*Scarus rivulatoides* Bleeker, 1847: *Scarus rivulatus*  
*Scarus rivulatus* Val., 1840: *Scarus rivulatus*  
*Scarus roseiceps* Val., 1840: *Cetoscarus bicolor*  
*Scarus roseiventer* Fowler, 1944: *Scarus vetula*  
*Cryptotomus roseus* Cope, 1871: *Cryptotomus roseus*  
*Callyodon rostratus* Seale, 1910: *Chlorurus sordidus*  
*Pseudoscarus rostratus* Günther, 1909: *Scarus rubroviolaceus*  
*Scarus rostratus* Poey, 1860: *Scarus coelestinus*  
*Scarus rostratus* Shaw, 1803: *nomen dubium*  
*Callyodon ruberrimus* Jordan & Seale, 1906:  
*Scarus rubroviolaceus*  
*Scarus rubiginoides* Guichenot, 1865: *Sparisoma cretense*  
*Scarus rubiginosus* Val., 1840: *Sparisoma cretense*  
*Scarus rubripinnis* Val., 1840: *Sparisoma rubripinne*  
*Callyodon rubrofasciatus* Smith, 1956: *Scarus caudofasciatus*  
*Scarus rubronotatus* Val., 1840: *Leptoscarus vaigiensis*  
*Scarus rubroviolaceus* Bleeker, 1847: *S. rubroviolaceus*  
*Scarus ruppelii* Val., 1840: *Hipposcarus harid*  
*Scarus russelii* Val., 1840: *Scarus russelii*  
*Scarus scaber* Val., 1840: *Scarus scaber*  
*Scarus scabriusculus* Val., 1840: *Scarus ghobban*  
*Pseudoscarus schlegeli* Bleeker, 1861: *Scarus schlegeli*  
*Hipposcarus schultzi* Smith, 1959: *Hipposcarus longiceps*  
*Callyodon scriptus* Gronow in Gray, 1854: *Cetoscarus bicolor*  
*Scarus sexvittatus* Rüppell, 1835: *Scarus frenatus*  
*Callyodon shimoniensis* Smith, 1953: *Bolbometopon muricatum*  
*Scarus sculus* Cocco, 1846: *Sparisoma cretense*  
*Pseudoscarus simplex* Poey, 1865: *Scarus coelestinus*  
*Scarus singaporensis* Bleeker, 1852: *Scarus prasiognathos*  
*Calotomus snyderi* Jenkins, 1903: *Calotomus carolinus*  
*Scarus sordidus* Forsskål, 1775: *Chlorurus sordidus*  
*Callyodon speigleri* Smith, 1956: *Scarus ghobban*  
*Pseudoscarus spilonotus* Kner, 1868: *Scarus globiceps*  
*Scarus spilurus* Val., 1840: *Chlorurus sordidus*  
*Scarus spinidens* Guichenot, 1865: *Sparisoma rubripinne*  
*Scarus spinidens* Quoy & Gaimard, 1824: *Calotomus spinidens*  
*Pseudoscarus spinus* Kner, 1868: *Scarus spinus*  
*Scarus squalidus* Poey, 1860: *Sparisoma chrysopteron*  
*Scarus striatus* Val., 1840: *nomen dubium*  
*Scarus strigatus* Günther, 1862: *Sparisoma strigatum*  
*Pseudoscarus strigipinnis* De Vis, 1885: *Scarus globiceps*  
*Scarus strongylocephalus* Bleeker, 1854:  
*Chlorurus strongylocephalus*  
*Scarus sumbawensis* Bleeker, 1848?: *Chlorurus sordidus*  
*Scarus superbus* Poey, 1860: *Scarus vetula*  
*Callyodon swicensis* Val., 1840: *Calotomus carolinus*  
*Scarus taeniopterus* Desmarest, 1831: *Scarus taeniopterus*  
*Scarus taeniurus* Val., 1840: *Scarus psittacus*  
*Scarus toshi* Whitley, 1933: *Scarus ghobban*  
*Scarus tricolor* Bleeker, 1847: *Scarus tricolor*  
*Scarus trilobatus* Lacepède, 1802: *Scarus coeruleus*



*Scarus trispinosus* Val., 1840: *nomen dubium*  
*Scarus troschelii* Bleeker, 1853: *Chlorurus troschelii*  
*Scarus truncatus* Poey, 1868: *Sparisoma rubripinne*  
*Scarus turchesius* Val., 1840: *Scarus guacamaia*  
*Callyodon ultramarinus* Jordan & Seale, 1906: *C. microrhinos*  
*Callyodon upolensis* Jordan & Seale, 1906: *Scarus frenatus*  
*Callyodon urbanus* Smith, 1959: *Scarus tricolor*  
*Nicholsina usta collettei* Schultz, 1968: *Nicholsina usta*  
*Callyodon ustus* Val., 1840: *Nicholsina usta*  
*Scarus vaigiensis* Quoy & Gaimard, 1824: *Leptoscarus vaigiensis*  
*Scarus variegatus* Val., 1840: *Chlorurus sordidus*  
*Scarus venosus* Val., 1840: *Scarus psittacus*  
*Callyodon vermiculatus* Fowler & Bean, 1928: *Scarus frenatus*  
*Callyodon verweyi* de Beaufort, 1940: *Scarus festivus*  
*Scarus vetula* Bloch & Schneider, 1801: *Scarus vetula*  
*Scarus virens* Val., 1840?: *Sparisoma chrysopterum*  
*Pseudoscarus virginalis* Jordan & Swain, 1884: *S. taeniopterus*  
*Pseudoscarus viridescens* Castelnau, 1875: *nomen dubium*  
*Scarus viridescens* Rüppell, 1835: *Calotomus viridescens*  
*Callyodon viridibusius* Fowler & Bean, 1928: *Scarus tricolor*  
*Callyodon viridifucatus* Smith, 1956: *Scarus viridifucatus*  
*Scarus viridis* Bloch, 1790: *Chlorurus japonensis*  
*Scarus viridis* Bonnaterre, 1788: *Sparisoma viride*  
 \* *Scarus visayanus* Herre, 1933: *Scarus tricolor*  
*Pseudoscarus vitriolinus* Bryan, 1906: *Chlorurus sordidus*  
*Callyodon waigiensis* Val., 1840: *Calotomus spinidens*  
*Callyodon waitei* Seale, 1906: *Scarus altipinnis*  
*Labrus xantherythrus* Rafinesque 1810: *Sparisoma cretense*  
*Scarus xanthopleura* Bleeker, 1853: *Scarus xanthopleura*  
*Calotomus xenodon* Gilbert, 1890: *Calotomus carolinus*  
*Sparisoma xystrodon* Jordan & Swain, 1884: *S. radians*  
*Scaridea zonarcha* Jenkins, 1903: *Calotomus zonarchus*  
*Pseudoscarus zonatus* Macleay, 1883: *Scarus oviceps*  
*Callyodon zonularis* Jordan & Seale, 1906: *Scarus dimidiatus*  
*Scarus zufar* Randall & Hoover, 1995: *Scarus zufar*

## ACKNOWLEDGEMENTS

We are grateful to Ernst Mikschi and Helmut Wellendorf (Naturhistorisches Museum Wien) for inviting one of us (P.P.) to visit the ichthyological collection and loaning specimens. We thank the following persons for providing information or loans of specimens: Gerald Allen; Nicolas Bailly, Marie-Louise Bauchot and Martine Desoutter (Muséum nationale d'Histoire naturelle, Paris), Alberto Brito (Universidad de la Laguna, Islas Canarias), William Bussing (Universidad de Costa Rica), Giuliano Doria (Museo Civico di Storia Naturale "G. Doria", Genova, Italy), Malcolm Francis (National Institute Water Atmospheric Research, New Zealand), Antony Gill (Museum Natural History, London), Martin Gomon and Rudie Kuitert (Museum of Victoria, Melbourne), Phillip Heemstra (J.L.B. Smith Institute of Ichthyology, Grahamstown), Jeff Johnson (Queensland Museum), Sven Kullander (Swedish Museum Natural History, Stockholm), Mauro Mariani and Alberto Postonia (Acquario di Milano, Italy), Keiichi Matsuura (National Science Museum, Tokyo), Mark McGrouther (Australian Museum, Sydney), Hans Paepke (Museum für Naturkunde, Berlin), Germán Pequeño and Maurizio Protti (Universidad Austral de Chile), Michela Podestà (Museo Civico di Storia Naturale Di Milano, Italy), Edoardo Razzetti (Museo di Storia Naturale di Pavia, Italy), Luiz Rocha (Universidade Federal de Paraíba, Brazil), Barry Russell (Museum and Art Gallery of the Northern Territory, Australia), Shih-Chieh Shen and Eric Tsao (Taipei

University), C. L. Smith and Melanie J. Stiassny (American Museum Natural History, New York), Katsumi Tsukamoto (Ocean Research Institute, University of Tokyo), Benjamin Victor, (University of California, Irvine), Mark W. Westneat (Field Museum Natural History, Chicago), Peter Wirtz and Frederico Cardigos (University of the Azores). We are grateful to William Eschmeyer, Carl Ferraris, Jr., Mysi Dang Hoang, and Douglas Long (California Academy of Science) for reviewing the manuscript. Many thanks to Rainer Froese (ICLARM, Philippines) for sending a copy of Fishbase 98 CD. Access to the ichthyological literature was greatly facilitated by the help of the staff of the Libraries of the Museo Civico di Storia Naturale and the Acquario e Civica Stazione Idrobiologica, Milano.

## REFERENCES

- AGASSIZ, L. 1846. *Nomenclatoris Zoologici. Index universalis, continens nomina systematica classium, ordinum, familiarum et generum animalium omnium, tam viventium quam fossilium, secundum ordinem alphabeticum unicum disposita...* Soloduri. Nomencl. Zool. Index; viii + 393 pp.
- ALLEN, G.R. 1973. *Bodianus bimaculatus*, a new species of wrasse (Pisces: Labridae) from the Palau Archipelago. *Proc. Biol. Soc. Wash.* 86 (32): 385-390.
- ALLEN, G.R. 1974. A review of the labrid genus *Paracheilinus*, with description of a new species from Melanesia. *Pac. Sci.* 28(4): 449-455.
- ALLEN, G. R. 1983. A new genus and species of wrasse (Pisces: Labridae) from Rowley Shoals, Western Australia. *Rev. fr. Aquariol.* 10(2): 43-46.
- ALLEN, G.R. 1985. Fishes of western Australia. In *Pacific marine fishes* (W.E. Burgess and H.R. Axelrod eds) Book 9: 2199-2534. T.F.H. Publications Inc., Neptune City, N.J.
- ALLEN, G.R. 1995a. A new species of wrasse (Labridae: *Cirrhitilabrus*) from Western Australia. *Rev. fr. Aquariol.* 22(1-2): 14-18.
- ALLEN, G.R. 1995b. *Thalassoma robertsoni*, a new species of wrasse (Labridae) from Clipperton Id Tropical Eastern Pacific. *Rev. fr. Aquariol.* 22: 75-79.
- ALLEN, G.R. 1999. Description of a new wrasse (Pisces: Labridae: *Cirrhitilabrus*) from North-western Australia. *Rev. fr. Aquariol.* 25(3-4) [1998]: 119-122.
- ALLEN, G.R. & R.H. KUITERT. 1999. Descriptions of two new wrasses of the genus *Cirrhitilabrus* (Labridae) from Indonesia. *Aquar. J. Ichthyol. Aquat. Biol.* 3(4): 133-140.
- ALLEN, G.R. & J.E. RANDALL. 1996. Three new species of wrasses (Labridae: *Cirrhitilabrus*) from Papua New Guinea and the Solomon Ids. *Rev. fr. Aquariol.* 23(3-4) 101-111.
- ALLEN, G.R. & D.R. ROBERTSON. 1992. Deux nouvelles espèces de Girelles (Labridae: *Halichoeres*) du Pacifique oriental tropical. *Rev. fr. Aquariol.* 19 (1-2): 47-52.
- ALLEN, G.R. & D.R. ROBERTSON. 1994. Fishes of the Eastern Tropical Pacific. Crawford House Press, Bathurst; 332 pp.
- ALLEN, G.R. & D.R. ROBERTSON. 1995. *Xyrichtys wellingtoni*, a new species of wrasse (Labridae) from Clipperton Id, tropical eastern Pacific Ocean. *Rev. fr. Aquariol.* 22: 80-82.
- ALLEN, G.R. & R.C. STEENE. 1979. The fishes of Christmas Id, Indian Ocean. Special Publication of the Australian National Parks and Wildlife Service, Canberra, Australia. 81 pp.
- ALLEYNE, H.G. & W. MACLEAY. 1877. The Ichthyology of the Chevert Expedition. *Proc. Linn. Soc. N. S. W.* 1: 321-359.
- AMAOKA, K., K. NAKAYA, T. KANAYAMA, E. YAMAMOTO, H. IDA, F. MITANI et al. 1982. Fishes of the Kiushu-Palau Ridge and Tosa Bay. Japan Fisheries Resource Conservation Association, Tokyo; 435 pp.



- ANDERSON C. 1996. Common reef fishes of Sri Lanka. Wildlife Heritage Trust of Sri Lanka, Colombo; 80 pp.
- ARAGA, C. & T. YOSHINO. 1986. A new species of deep-dwelling razorfish from Japan. *Publ. Seto Mar. Biol. Lab.* 31: 75-79.
- ARTEDI, P. 1738. *Synonymia nominum piscium fere omnium*. Ichthyologie pars IV. Lugduni Batavorum apud Conradum Wishoff; iii + 140 pp.
- ASCANIUS, P. 1767. *Icones rerum naturalium*, ou figures enluminées d'histoire naturelle du Nord. Copenhagen. Cahier 1: 22 pp., 9 pls.
- ASCANIUS, P. 1772. *Icones rerum naturalium*, ou figures enluminées d'histoire naturelle du Nord. Copenhagen. Cahier 2: 8 pp., 9 pls.
- AYLING, A.M. & B.C. RUSSELL. 1977. The labrid fish genus *Pseudojuloides*, with description of a new species. *Austr. Zool.* 19(2): 169-178.
- AYRES, W.O. 1854. [Description of new fishes from California] The Pacific, vol. 3 and 4 (thru no. 6): Several articles. [Also in *Proc. Calif. Acad. Nat. Sci.* 1: 3-22].
- AYRES, W.O. 1859. [On new fishes of the California coast]. *Proc. Calif. Acad. Nat. Sci.* 2: 25-32.
- AZEVEDO, J.M.N. 1999. *Centrolabrus caeruleus* sp. nov., a long unrecognized species of marine fish (Teleostei, Labridae) from the Azores. *Bocagiana* 196: 1-11.
- BALDWIN, C.C. & J.E. McCOSKER. (In press). Wrasses of the Galapagos Islands, with the description of a new deepwater species of *Halichoeres* (Perciformes: Labridae). in Robertson, D.R. and P.A. Hastings (eds.). Systematics of tropical eastern Pacific fishes. *Rev. Biol. Trop.* (In press).
- BARNARD, K.H. 1927. A monograph of marine fishes of South Africa. Part II (Teleostei - Discocephali to end. Appendix) *Ann. S. Afr. Mus.* 21(2): 417-1065.
- BAUCHOT, M.-L. 1963. Catalogue des types de poissons du Muséum National d'Histoire Naturelle: Famille des Labridae. *Publ. div. Mus. natn. His. nat.*, Paris, 20: 1-113.
- BAUCHOT, M.-L. 1969. Etude d'une collection récoltée au cours des campagnes de chalutage dans le Golfe de Guinée (G.T.S. 1963-64) *Bull. Mus. natn. Hist. nat.* (Ser. 2) 41(2): 410-425.
- BAUCHOT, M.-L. & M. BLANC. 1961. Poissons marine de l'Est Atlantique tropical. I. Labroidei (Téléostéens Perciformes) *Atl. Rep.* 6: 1-64.
- BAUCHOT, M.-L. & J. GUIBÉ. 1960. Catalogue des types de poissons du Muséum national d'Histoire naturelle. Famille des Scaridae. *Bull. Mus. natn. His. nat.*, 32(4): 290-300.
- BAUCHOT, M.-L. & J. GUIBÉ. 1961. Addendum au catalogue des types de poissons du Muséum national d'Histoire naturelle. Famille des Scaridae. *Bull. Mus. natn. His. nat.*, 33(3): 259.
- BAUCHOT, M.-L. & J.P. QUIGNARD. 1973. Labridae, p. 426-443. In: J.C. Hureau & T. Monod (eds.) Check-list of the fishes of the north-eastern Atlantic and of the Mediterranean. Unesco, Paris. Vol. 1.
- BAILEY, R.M. 1997. Comments on the proposed conservation of the names *Labrus* Linnaeus, 1758, *Cichlasoma* Swainson, 1839 and *Polycentrus* Müller & Troschel, 1848 by the designation of neotypes for *Labrus bimaculatus* Linnaeus, 1758 and *L. punctatus* Linnaeus, 1758 (Osteichthyes, Perciformes). *Bull. Zool. Nom.* 54(2): 106-109.
- BEAN, T.H. 1891. Notes on fishes collected at Cozumel, Yucatan, by the U.S. fish Commission, with descriptions of new species. *Bull. U.S. Fish. Comm.* 8: 193-206.
- BEAN, T.H. 1906. Descriptions of new Bermudian fishes. *Proc. Biol. Soc. Wash.* 19: 29-34.
- BEAN, T.H. 1912. Description of new fishes from Bermuda. *Proc. Biol. Soc. Wash.* 25: 121-126.
- BEBARS, M.I. 1978. *Scarus ghardquensis*, n. sp., a new parrotfish (Pisces, Scaridae) from the Red Sea, with a note on a sexual dichromatism in the family. *Cybbium* 3(3): 76-81.
- BEEBE, W. & J. TEE-VAN. 1932. New Bermuda fish, including six new species and forty-three species hitherto unrecorded from Bermuda. *Zoologica* 13(5): 109-120.
- BEEBE, W. & J. TEE-VAN. 1933. Nomenclatural notes on the shore fishes of Bermuda. *Zoologica* 13(7): 133-158.
- BELLWOOD, D.R. 1994. A phylogenetic study of the parrotfishes family Scaridae (Pisces: Labroidei), with a revision of the genera. *Rec. Austr. Mus. Suppl.* 20: 1-86.
- BELLWOOD, D.R. & J.E. RANDALL. 2000. *Pseudojuloides severnsi*, a new species of wrasse from Indonesia and Sri Lanka (Perciformes: Labridae). *J. South Asian Nat. Hist.* 5(1): 1-5.
- BENNETT, E.T. 1828a. Description of a new species of *Julis* Cuvier. *Zool. J. London* 3: 577-578.
- BENNETT, E.T. 1828b. Observations on the fishes contained in the collection of the Zoological Society. On some fishes from the Sandwich Islands. *Zool. J. London* 4: 31-43.
- BENNETT, E.T. 1830. Class Pisces. Pp. 686-694. In: Memoir of the Life and Public Services of Sir Thomas Stamford Raffles... By his Widow (Lady Stamford Raffles) London, 701 pp. [Most workers cite Bennett as author, but there is no internal evidence that he was the author].
- BENNETT, E.T. 1831. Observations on a collection of fishes from the Mauritius presented by Mr. Telfair with character of new genera and species. *Proc. Zool. Soc. London* 1831: 126-128.
- BENNETT, E.T. 1832a. Observations on a collection of fishes from the Mauritius presented by Mr. Telfair with character of new genera and species. *Proc. Zool. Soc. London* 1831: 165-169.
- BENNETT, E.T. 1832b. Characters of several new species of fishes from Ceylon presented by Dr. Sibbald. *Proc. Zool. Soc. London* 1832: 182-184.
- BENNETT, E.T. 1832c. Characters of two new species of fishes, from the Mauritius, presented by Mr. Telfair. *Proc. Zool. Soc. London* 1832: 184.
- BENNETT, E.T. 1835. Characters of several previously undescribed fishes from Trebizond. *Proc. Zool. Soc. London* 1835: 91-92.
- BENNETT, E.T. 1836. Characters of several fishes from the Isle of France. *Proc. Zool. Soc. London* 1836: 206-208.
- BENNETT, J.W. 1828. A selection from the most remarkable and interesting fishes found on the coast of Ceylon. London. First edition. Part 1: 1-10.
- BENNETT, J.W. 1829. A Selection from the Most Remarkable and Interesting Fishes Found on the Coast of Ceylon. London. First edition. Part 2: 11-15.
- BENNETT, J.W. 1830. A Selection from the Most Remarkable and Interesting Fishes Found on the Coast of Ceylon. London. First edition. Part 3: 16-30.
- BENNETT, J.W. 1834. A selection from the most remarkable and interesting fishes found on the coast of Ceylon. London. Second edition; 30 pp.
- BENNETT, J.W. 1841. A selection from the most remarkable and interesting fishes found on the coast of Ceylon. London. Third edition; 30 pp.
- BIANCONI, G.G. 1857. *Specimina Zoologica Mosambicana quibus vel novae vel minus notae animalium species illustrantur*. Bononiae. *Rend. Acad. Sci. Ist. Bologna* 10: 215-230.
- BINI, G. 1968. Perciformi (Percoidei) Atlante dei pesci delle coste Italiane. Vol. 5. Mondo Sommerso Editrice, Milano, 175 pp. + 22 figs.
- BLEEKER, P. 1845. Bijdragen tot de geneeskundige Topographie van Batavia. Generisch overzicht der Fauna. *Natuur. Geneesk. Arch. Ned. Indië* 2: 505-528.
- BLEEKER, P. 1847. *Pharyngognathorum Siluroideorumque species novae javanenses*. *Natuur. Geneesk. Arch. Ned. Indië* 4 (2): 155-169.
- BLEEKER, P. 1849a. Overzicht der te Batavia voorkomende



- Gladschubige Labroïden, met beschrijving van 11 nieuwe species. *Verh. Batav. Genootsch. Kunst. Wet.* 22: 1-64.
- BLEEKER, P. 1849b. Bijdrage tot de kennis der ichthyologische fauna van het eiland Bali, met beschrijving van eenige nieuwe species. *Verh. Batav. Genootsch. Kunst. Wet.* 22: 1-11.
- BLEEKER, P. 1851a. *Cheilinoïdes* een nieuw geslacht van gladschubige Labroïden van Batavia. *Natuurkd. Tijdschr. Neder.-Indië* 2: 71-72.
- BLEEKER, P. 1851b. Bijdrage tot de kennis der ichthyologische fauna van de Banda-eilanden. *Natuurkd. Tijdschr. Neder.-Indië* 2: 225-261.
- BLEEKER, P. 1851c. Bijdrage tot de kennis der ichthyologische fauna van Riouw. *Natuurkd. Tijdschr. Neder.-Indië* 2: 469-497.
- BLEEKER, P. 1852a. Bijdrage tot de kennis der ichthyologische fauna van Singapore. *Natuurkd. Tijdschr. Neder.-Indië* 3: 51-86.
- BLEEKER, P. 1852b. Bijdrage tot de kennis der ichthyologische fauna van Timor. *Natuurkd. Tijdschr. Neder.-Indië* 3: 159-174.
- BLEEKER, P. 1852c. Bijdrage tot de kennis der ichthyologische fauna van de Moluksche Eilanden. Visschen van Amboina en Ceram. *Natuurkd. Tijdschr. Neder.-Indië* 3: 229-309.
- BLEEKER, P. 1852d. Nieuwe bijdrage tot de kennis der ichthyologische fauna van Amboina. *Natuurkd. Tijdschr. Neder.-Indië* 3: 545-568.
- BLEEKER, P. 1852e. Nieuwe vischen van Banda Neira. *Natuurkd. Tijdschr. Neder.-Indië* 3: 643-646.
- BLEEKER, P. 1852f. Nieuwe bijdrage tot de kennis der ichthyologische fauna van het eiland Banka. *Natuurkd. Tijdschr. Neder.-Indië* 3: 715-738.
- BLEEKER, P. 1852g. Derde bijdrage tot de kennis der ichthyologische fauna van Celebes. *Natuurkd. Tijdschr. Neder.-Indië* 3: 739-782.
- BLEEKER, P. 1853a. Derde bijdrage tot de kennis der ichthyologische fauna van Amboina. *Natuurkd. Tijdschr. Neder.-Indië* 4: 91-130.
- BLEEKER, P. 1853b. Bijdrage tot de kennis der ichthyologische fauna van Ternate. *Natuurkd. Tijdschr. Neder.-Indië* 4: 131-140.
- BLEEKER, P. 1853c. Diagnostische beschrijvingen van nieuwe of weinig bekende vischsoorten van Sumatra. Tiental V-X. *Natuurkd. Tijdschr. Neder.-Indië* 4: 243-302.
- BLEEKER, P. 1853d. Diagnostische beschrijvingen van nieuwe of weinig bekende vischsoorten van Batavia. Tiental I-IV. *Natuurkd. Tijdschr. Neder.-Indië* 4: 451-516.
- BLEEKER, P. 1853e. Nieuwe bijdrage tot de kennis der ichthyologische fauna van Ternate en Halmaheira (Gilolo). *Natuurkd. Tijdschr. Neder.-Indië* 4: 595-610.
- BLEEKER, P. 1853f. Bijdrage tot de kennis der ichthyologische fauna van Solor. *Natuurkd. Tijdschr. Neder.-Indië* 5: 67-96.
- BLEEKER, P. 1853g. Vierde bijdrage tot de kennis der ichthyologische fauna van Celebes. *Natuurkd. Tijdschr. Neder.-Indië* 5: 153-174.
- BLEEKER, P. 1853h. Vierde bijdrage tot de kennis der ichthyologische fauna van Amboina. *Natuurkd. Tijdschr. Neder.-Indië* 5: 317-352.
- BLEEKER, P. 1853i. Nalezingen op de ichthyologie van Japan. *Verh. Batav. Genootsch. Kunst. Wet.* 25: 1-56.
- BLEEKER, P. 1854a. Bijdrage tot de kennis der ichthyologische fauna van Halmaheira (Gilolo). *Natuurkd. Tijdschr. Neder.-Indië* 6: 49-62.
- BLEEKER, P. 1854b. *Species piscium bataviensium novae vel minus cognitae*. *Natuurkd. Tijdschr. Neder.-Indië* 6: 191-202.
- BLEEKER, P. 1854c. Bijdrage tot de kennis der ichthyologische fauna van het eiland Flores. *Natuurkd. Tijdschr. Neder.-Indië* 6: 311-338.
- BLEEKER, P. 1854d. Faunae ichthyologicae japonicae species novae. *Natuurkd. Tijdschr. Neder.-Indië* 6: 395-426.
- BLEEKER, P. 1854e. Vijfde bijdrage tot de kennis der ichthyologische fauna van Celebes. *Natuurkd. Tijdschr. Neder.-Indië* 7: 225-260.
- BLEEKER, P. 1854f. *Specierum piscium javanensium novarum vel minus cognitarum diagnoses adumbratae*. *Natuurkd. Tijdschr. Neder.-Indië* 7: 415-488.
- BLEEKER, P. 1855a. Bijdrage tot de kennis der ichthyologische fauna van de Batoe-eilanden. *Natuurkd. Tijdschr. Neder.-Indië* 8: 305-328.
- BLEEKER, P. 1855b. Visschen van de Duizend-eilanden. *Natuurkd. Tijdschr. Neder.-Indië* 8: 344.
- BLEEKER, P. 1855c. Zesde bijdrage tot de kennis der ichthyologische fauna van Amboina. *Natuurkd. Tijdschr. Neder.-Indië* 8: 391-434.
- BLEEKER, P. 1855d. Vierde bijdrage tot de kennis der ichthyologische fauna van de Kokos-eilanden. *Natuurkd. Tijdschr. Neder.-Indië* 8: 445-460.
- BLEEKER, P. 1855e. Achtste bijdrage tot de kennis der ichthyologische fauna van Celebes. *Natuurkd. Tijdschr. Neder.-Indië* 9: 281-314.
- BLEEKER, P. 1856a. Beschrijvingen van nieuwe of weinig bekende vischsoorten van Amboina, verzameld op eene reis door den Molakschen Archipel, gedaan in het gevolg van den Gouverneur-Generaal Duymaer van Twist in September en October 1855. *Acta Soc. Sci. Indo-Neerl.* 1: 1-76.
- BLEEKER, P. 1856b. Beschrijvingen van nieuwe of weinig bekende vischsoorten van Manado en Makassar grootendeels verzameld op eene reis naar den Molakschen Archipel in het gevolg van den Gouverneur-Generaal Duymaer van Twist. *Acta Soc. Sci. Indo-Neerl.* 1: 1-80.
- BLEEKER, P. 1856c. Zevende bijdrage tot de kennis der ichthyologische fauna van Ternate. *Natuurkd. Tijdschr. Neder.-Indië* 10: 357-386.
- BLEEKER, P. 1856d. Verslag omtrent eenige vischsoorten gevangen aan de Zuidkust van Malang in Oost-Java. *Natuurkd. Tijdschr. Neder.-Indië* 11: 81-92.
- BLEEKER, P. 1856e. Bijdrage tot de kennis der ichthyologische fauna van Nias. *Natuurkd. Tijdschr. Neder.-Indië* 12: 211-228.
- BLEEKER, P. 1856f. Derde bijdrage tot de kennis der ichthyologische fauna van de Batoe-eilanden. *Natuurkd. Tijdschr. Neder.-Indië* 12: 229-242.
- BLEEKER, P. 1856g. *Index specierum piscium malayomoluccensium in voluminibus 1-10 Diarii Societatis Indo-Batavae descriptarum*. *Natuurkd. Tijdschr. Neder.-Indië* 10: 472-500.
- BLEEKER, P. 1857a. Tweede bijdrage tot de kennis der ichthyologische fauna van Boeroe. *Natuurkd. Tijdschr. Neder.-Indië* 13: 55-82.
- BLEEKER, P. 1857b. Descriptiones specierum piscium javanensium novarum vel minus cognitarum diagnosticae. *Natuurkd. Tijdschr. Neder.-Indië* 13: 323-368.
- BLEEKER, P. 1857c. Achtste bijdrage tot de kennis der vischfauna van Amboina. *Acta Soc. Sci. Indo-Neerl.* 2: 1-102.
- BLEEKER, P. 1858a. Tiende bijdrage tot de kennis der vischfauna van Amboina. *Acta Soc. Sci. Indo-Neerl.* 3: 1-4.
- BLEEKER, P. 1858b. Zesde bijdrage tot de kennis der vischfauna van Sumatra (Visschen van Padang, Troessan, Priaman, Sibogha en Palembang). *Acta Soc. Sci. Indo-Neerl.* 3: 1-50.
- BLEEKER, P. 1858c. Vierde Bijdrage tot de kennis der vischfauna van Biliton. *Natuurkd. Tijdschr. Neder.-Indië* 15: 219-240.
- BLEEKER, P. 1859a. Derde bijdrage tot de kennis der ichthyologische fauna van Bali. *Natuurkd. Tijdschr. Neder.-Indië* 17: 141-175.
- BLEEKER, P. 1859b. Bijdrage tot de kennis der vischfauna van Nieuw-Guinea. *Acta Soc. Sci. Indo-Neerl.* 6: 1-24.



- BLEEKER, P. 1859c. Over eenige vischsoorten van de Zuidkust-wateren van Java. *Natuurkd. Tijdschr. Neder.-Indië* 19: 329-352.
- BLEEKER, P. 1859d. *Enumeratio specierum piscium hucusque in Archipelago Indico observatarum, adjectis habitationibus citationibusque ubi descriptiones earum recentiores reperiuntur, nec non speciebus Musei Bleekeriani Bengalensibus, Japonicis, Capensibus Tasmanicisque. Acta Soc. Sci. Indo-Neerl.* 6: i-xxvi, 1-276.
- BLEEKER, P. 1860a. Achtste bijdrage tot de kennis der vischfauna van Sumatra. Visschen van Benkoelen, Priaman, Tandjong, Palembang en Djambi. *Acta Soc. Sci. Indo-Neerl.* 8 (art. 2): 1-88.
- BLEEKER, P. 1860b. Elfde bijdrage tot de kennis der vischfauna van Amboina. *Acta Soc. Sci. Indo-Neerl.* 8(5): 1-14.
- BLEEKER, P. 1860c. Dertiende Bijdrage tot de kennis der vischfauna van Celebes. Visschen van Bonthain, Badjoa, Sindjai, Lagoesi en Pompenoea. *Acta Soc. Sci. Indo-Neerl.* 8: 1-60.
- BLEEKER, P. 1861a. Iets over de vischfauna van het eiland Pinang. *Versl. Akad. Amst.* 12: 64-80.
- BLEEKER, P. 1861b. Iets over de geslachten der Scaroiden en hunne Indisc-archipelagische soorten. *Versl. Akad. Amst.* 12: 228-244.
- BLEEKER, P. 1862a. *Conspectus generum Labroideorum analyticus. Proc. Zool. Soc. London* 1861 (pt 3): 408-418.
- BLEEKER, P. 1862b. *Synonyma Labroideorum Indo-archipelagicorum hucusque observatorum revisa, adjectis specierum novarum descriptionibus. Versl. Akad. Amst.* 13: 274-308.
- BLEEKER, P. 1862c. Notices ichthyologiques (III) Sur deux nouvelle espèce de *Scarus*. *Versl. Akad. Amst.* 14: 126-128.
- BLEEKER, P. 1862d. Notices ichthyologiques (IV) Sur une nouvelle espèce de *Cossyphus (oxycephalus)*. *Versl. Akad. Amst.* 14: 128-130.
- BLEEKER, P. 1862e. Notices ichthyologiques (V) Sur une nouvelle espèce de *Pseudolabre (Güntheri)* de la Nouvelle Hollande. *Versl. Akad. Amst.* 14: 130-133.
- BLEEKER, P. 1862f. Atlas Ichthyologique des Indes Orientales Néerlandaises, publié sous les auspices du Gouvernement colonial néerlandais. Frédéric Muller, Amsterdam. Vol. 1. Scaroides et Labroides: xxi + 168 pp, 48 pls.
- BLEEKER, P. 1863. Mémoire sur les poissons de la côte de Guinée. *Nat. Verh. Holland. Maatsch. Wet.* (2) 18: 1-136.
- BLEEKER, P. 1865. Description de quelques espèce de poissons du Japon, du Cap de Bonne Espérance et de Suriname, conservée au Musée de Leide. *Ned. Tijdschr. Dierk.* 2: 250-269.
- BLEEKER, P. 1866. Description d'une espèce inédite de *Cheilinus*. *Ned. Tijdschr. Dierk.* 3: 134-135.
- BLEEKER, P. 1868. Description de deux espèce inédites de *Choerops*. *Arch. Neerl. Sc. Nat.* 3: 273-277.
- BLEEKER, P. 1871. Description de deux espèce inédites de Labroides d'Amboine. *Arch. Neerl. Sc. Nat.* 6: 326-328.
- BLEEKER, P. 1873. Addition au mémoire sur la faune ichthyologique de Chine. *Ned. Tijdschr. Dierk.* 4: 233-234.
- BLEEKER, P. 1875. Poissons de Madagascar et de l'île de Réunion des collections de MM. Pollen et Van Dam. In: Recherches sur la faune de Madagascar et de ses dépendances d'après les découvertes de François P.L. Pollen et D.C. van Dam. Leide. Part 4: 1-104.
- BLEEKER, P. 1878. Quatrième mémoire sur la faune ichthyologique de la Nouvelle-Guinée. *Arch. Néerl. Sc. Nat.* 13: 35-66.
- BLISS, R. 1883. Descriptions of new species of Mauritian fishes. *Trans. R. Soc. Mauritius* [1879] 13: 45-63.
- BLOCH, M. E. 1786. Naturgeschichte der ausländischen Fische. Berlin, 2; viii + 160 pp., 36 pls.
- BLOCH, M.E. 1789. Charaktere und Beschreibung des Geschlechts der Papageyfische, *Callyodon*. *Abh. Böhm. Ges. Wissen.* [1788] 4: 242-248.
- BLOCH, M.E. 1790. Naturgeschichte der ausländischen Fische. Berlin, 4; xii + 128 pp., 36 pls.
- BLOCH, M.E. 1791. Naturgeschichte der ausländischen Fische. Berlin, 5; viii + 152 pp., 36 pls.
- BLOCH, M.E. 1792. Naturgeschichte der ausländischen Fische. Berlin, 6; xii + 126 pp., 35 pls.
- BLOCH, M.E. & J. G. SCHNEIDER. 1801. *Blochii Systema Ichthyologiae iconibus CX illustratum. Post obitum auctoris opus inchoatum absolvit, correxit, interpolavit* Jo. Gottlob Schneider, Saxo. Berolini. *Sumtibus Austoris Impressum et Bibliopolio Sanderiano Commisum*; lx + 584 pp., 110 pls.
- BONAPARTE, C.L. Principe. 1831-32. Saggio di una distribuzione metodica degli animali vertebrati, (1831) 78 pp. Saggio d'una distribuzione .... vertebrati a sangue freddo, (1832) 86 pp.
- BONAPARTE, C.L. Principe. 1846. Catalogo metodico dei pesci Europei. Napoli; 97 pp.
- BONNATERRE, J.P. 1788. Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie. Paris; lvi + 215 pp., pls A,B + 100.
- BORY DE SAINT-VINCENT, J. B. G. M. 1831. Dictionnaire classique d'Histoire Naturelle. 17 Tomes / par Messieurs [J. V.] Audouin, I. Bourdon ... et Bory de Saint-Vincent. Ouvrage dirigé par ce dernier collaborateur, Paris, 1822-31.
- BOULENGER, G.A. 1890. Pisces, p. 483. In: H.N. Ridley, Notes on the zoology of Fernando Noronha. *J. Linn. Soc.* 20: 473-570.
- BOWDICH, S.L. 1825. Fishes of Madeira. In: T.E. Bowdich. Excursion in Madeira and Porto Santo during the autumn of 1823, while on his third voyage to Africa. London; 278 pp.
- BÖHLKE, E. B. 1984. Catalog of type specimens in the ichthyological collection of the Academy of Natural Sciences of Philadelphia. *Acad. Nat. Sci. Phila. Spec. Publ.* 14: 1-246.
- BREDER, C. M. Jr. 1925. Notes on fishes from three Panama localities, Gatun Spillway, Rio Tapica and Caledonia Bay. *Zoologica* 4(4): 137-158.
- BROWNE, P. 1789. The civil and natural history of Jamaica. Second edition. Hist. Jamaica; viii + 490 pp.
- BRUCE, R. W. & J. E. RANDALL. 1985. Revision of the Indo-Pacific parrotfish genera *Calotomus* and *Leptoscarus* (Scaridae: Sparisomatinae) *Indo-Pac. Fishes* 5: 1-32.
- BRÜNNICH, M. T. 1768. *Ichthyologia Massiliensis, sistens piscium descriptiones eorumque apud incolas nomina. Accedunt Spolia Maris Adriatici*. Hafnie et Lipsiae; 110 pp.
- BRYAN, W. A. 1906. Three new Hawaiian fishes. *Occas. Pap. Bernice P. Bishop Mus.* 2(4): 22-37.
- BRYAN, W. A. & A.C. HERRE. 1903. Annotated list of the Marcus Island fishes. *Occas. Pap. Bernice P. Bishop Mus.* 2(1): 125-139.
- BUSSING, W. A. 1972. *Halichoeres aestuaricola*, a replacement name for the tropical eastern Pacific labrid fish, *Iridio bimaculata* Wilson, with a redescription based on new material. *Brenesia* 1: 3-8.
- BUSSING, W. A. 1983. A new tropical eastern Pacific labrid fish, *Halichoeres discolor* endemic to Isla del Coco, Costa Rica. *Rev. Biol. Trop.* 31(1): 19-23.
- BUSSING, W. A. 1987. Peces de las aguas continentales de Costa Rica. Editorial de la Universidad de Costa Rica, San Jose, Costa Rica: 1-271.
- CADENAT, J. & E. MARCHAL. 1963. Résultats des campagne océanographiques de la Reine-Pokou aux îles Sainte-Hélène et Ascension. Poissons. *Bull. Inst. Fr. Afr. Noire*, (A) 25(4): 1235-1315.
- CANESTRINI, G. 1866. Prospetto critico dei pesci d'acqua dolce d'Italia. *Arch. Zool. Anat. Fisiol.* 4: 47-187.
- CANESTRINI, G. 1872. Pesci d'Italia. Parte II. Pesci marini: 37-208. In: Fauna d'Italia, E. Cornalia, Milano 1870-1874, Vol. 3.
- CANTOR, T. E. 1849. Catalogue of Malayan fishes. *J. R. Asiat.*



- Soc. Bengal* 18(2): i-xii + 981-1143.
- CAPORIACCO, L. di. 1921. Revisione delle specie Mediterranee della famiglia "Labridae". *Atti Soc. It. Sc. Nat.* 60: 49-101.
- CAPORIACCO, L. di. 1947. Miscellanea ichthyologica. *Boll. Pesca Piscic. Idrobiol.* 23: 193-205.
- CARMICHAEL, D. 1819. Descriptions of four species of fishes found on the coast of Tristan de Cunha. *Trans. Linn. Soc. London* [1817] 12: 500-502.
- CARTIER, O. 1874. Beschreibungen neuer Pharyngognathen; ein Beitrag zur Kenntnis der Fische des philippinischen Archipels. *Verh. Phys. Med. Ges. Würzburg* 5: 96-105.
- CARUS, J.V. 1893. Vertebrata. 1. Class Pisces: pp 498-711. In: *Prodromus faunae Mediterraneae sive Descriptio Animalium Maris Mediterranei*. Stuttgart, 1893, 2: 854 pp.
- Case 2842. *Naucrates Rafinesque*, 1810 and *Xyrichtys* Cuvier, 1814 (Osteichthyes, Perciformes): proposed conservation. Proposed by Randall, J. E. & M.-L. Bauchot. 1993. *Bull. Zool. Nom.* 50(4): 277-281.
- Case 2905. *Labrus* Linnaeus, 1758, *Cichlasoma* Swainson, 1839 and *Polycentrus* Müller & Troschel, 1848 (Osteichthyes, Perciformes): proposed conservation of usage by the designation of neotypes for *Labrus bimaculatus* Linnaeus, 1758 and *L. punctatus* Linnaeus, 1758. Proposed by R. Fricke & C.J. Ferraris. 1996. *Bull. Zool. Nom.* 53(2): 106-111.
- Case 3051. *Scarus chrysopterus* Bloch & Schneider, 1801 (currently *Sparisoma chrysopterus*; Osteichthyes, Perciformes): proposed conservation of the specific name and designation as the type-species of *Sparisoma* Swainson, 1839. Proposed by R.L. Moura & J.E. Randall. 1998. *Bull. Zool. Nom.* 55(3): 151-154.
- CASTELNAU, F. L. de. 1855. Animaux nouveaux ou rares recueillis pendant l'expédition dans les parties centrales de l'Amerique du sud de Rio de Janeiro à Lima, et de Lima au Para. In: *Expédition dans les parties centrales de l'Amerique du sud pendant les années 1843 à 1847*, 7e partie, Zoologie, Poissons. P. Bertrand, Paris, Vol. 2; xiv + 112 pp.
- CASTELNAU, F. L. de. 1872a. Contributions to the ichthyology of Australia. I. The Melbourne fish market. *Proc. Zool. Acclim. Soc. Victoria* 1: 29-242.
- CASTELNAU, F. L. de. 1872b. Contributions to the ichthyology of Australia. II. Notes on some Australian fishes. *Proc. Zool. Acclim. Soc. Victoria* 1: 243-248.
- CASTELNAU, F. L. de. 1873. Contributions to the ichthyology of Australia. III through IX. *Proc. Zool. Acclim. Soc. Victoria* 2: 37-153.
- CASTELNAU, F. L. de. 1875. Researches on the fishes of Australia. Philadelphia Centennial Expedition of 1876. *Intercol. Exhib. Essays* 2: 1-52.
- CASTELNAU, F. L. de. 1879. Essay on the ichthyology of Port Jackson. *Proc. Linn. Soc. N. S. W.* 3: 347-402.
- CATESBY, M. 1771. The natural history of Carolina, Florida and the Bahama Islands; containing the figures of birds, beasts, fishes, serpents ... with their descriptions in English and French, etc. 3rd. ed. 2 vols. London. Nat. Hist. Carolina
- CERVIGÓN, F. 1982. Los peces marinos de Venezuela. Complemento V. Fundación Científica Los Roques, Caracas-Venezuela. *Peces Venezuela*. V: 1-15.
- CERVIGÓN, F., R. CIPRIANI, W. FISHER, L. GARIBALDI, M. HENDRICKX, A.J. LEMUS, R. MÁRQUEZ, J.M. POUTIERS, G. ROBAINA & B. RODRIGUEZ. 1993. FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water resources of the northern coast of South America. Rome, FAO; 513 pp.
- CHEN, J. P. & K. T. SHAO. 1995. New species of wrasse, *Pseudocoris ocellatus* (Pisces: Labridae), from Taiwan. *Copeia* 1995 (3): 689-693.
- CHENG, C.-T. & C.-X. WANG. 1979. Description of a new genus and a new species of a labroid fish of China. *Oceanol. Limnol. Sin.* 10(1): 73-76 (In Chinese with English summary).
- CHOAT, J. H. & J. E. RANDALL. 1986. A review of the parrotfishes (Family Scaridae) of the Great Barrier Reef of Australia, with description of a new species. *Rec. Aust. Mus.* 38(4): 175-228.
- CHOAT, J.H. & D.R. ROBERTSON. 1975. Protogynous hermaphroditism in fishes of the family Scaridae, p. 263-283. In: R. Reinboth (ed.) *Intersexuality in the Animal Kingdom* Springer-Verlag, Heidelberg.
- CHU, Y.-T. 1931. *Index Piscium Sinensium*. Biol. Bull. St. John's Univ. Shanghai No. 1: i-iv + 1-290.
- CLARK, H.W. 1936. New and noteworthy fishes. The Templeton Crocker expedition of the California Academy of Sciences, 1932. *Proc. Calif. Acad. Sci.* (Ser. 4) 21: 383-396.
- COCCO, A. 1833. Su alcuni pesci de' mari di Messina. Lettera di Anastasio Cocco al sig. A. Risso membro dell'Accademia Imperiale di Torino, corrispondente della Società Filomatica di Parigi, ecc. *Giorn. Sci. Lett. Arti Sicilia* 42: 9-21.
- COCCO, A. 1840. Su di alcuni nuovi pesci del mare di Messina. Lettera del Professore Anastasio Cocco al Professore Stefano delle Chiaie da Napoli. *Maurolico Giorn. Sc. Lett. Art. Nuovo Periodo Anno Secondo* (1839), Messina, 4 (5): 236-244.
- COCCO, A. 1846. Intorno ad uno Scaro nel Mare di Messina. *Atti VII Adunanza Scient. Ital.*, Napoli: 748 Also published in *Giorn. Gab. Lett. Messina* 3, Tome 5, fasc. 27 e 28, p. 254.
- COLLETTE, B. B. 1962. *Hemiramphus bermudensis*, a new halfbeak from Bermuda, with a survey of endemism in Bermudian shore fishes. *Bull. Mar. Sci. Gulf Caribb.* 12(3): 432-449.
- COPE, E. D. 1871. Contributions to the ichthyology of the Lesser Antilles. *Trans. Am. Phil. Soc.* 14: 445-483.
- CORNIC, A. 1887. Poissons de l'île de Maurice. Editions de l'Océan Indien. Stanley, Rose-Hill, Mauritius; 335 pp.
- CORSINI, M. & P.S. ECONOMIDIS. 1999. Distribution extension of two leptocephalus migrants found in the marine area of the island of Rhodes (Aegean Sea, Greece). *Cybius* 23(2): 195-199.
- COSTA, F. 1991. *Atlante dei pesci dei mari italiani*. Mursia Editore, Milano; 429 pp.
- COUCH, J. 1832. Fishes new to the British fauna, contained in Couch's 'History of the fishes of Cornwall'. *Mag. Nat. Hist.* 5: 15-24.
- CUVIER, G.L.F.C.D. 1814. Observations et recherches critiques sur les différentes poissons de la Méditerranée et, a leur occasion, sur des poissons des autres mers plus ou moins liés avec eux. *Bull. Soc. Philomath. Paris* 1814: 80-92.
- CUVIER, G.L.F.C.D. 1815a. Observations et recherches critiques sur différents poissons de la Méditerranée, et à leur occasion sur des poissons d'autres mers, plus ou moins liés avec eux. *Mem. Mus. natn. Hist. nat.* 1: 226-241, 312-330, 353-363, 451-466.
- CUVIER, G.L.F.C.D. 1815b. Mémoire sur la composition de la mâchoire supérieure des poissons, et sur la partie que l'on peut en tirer pour la distribution méthodique de ces animaux. *Mem. Mus. natn. Hist. nat.* 1: 102-114.
- CUVIER, G.L.F.C.D. 1816. Le Règne Animal distribué d'après son organization, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée. Les reptiles, les poissons, les mollusques et les annélides. Paris, 4 Vols, Edition 1. Poissons, Vol. 2: 104-351.
- CUVIER, G.L.F.C.D. 1822. Das Tierreich eingetheilt nach dem Bau des Thiere als Grundlage ihrer Naturgeschichte und der vergleichenden Anatomie. I.G. Cotta'schen, Stuttgart et Tübingen 1821-25, 4 vols. Fishes vol. 2 (1822), pp. 189-153; translation, corrections and additions due to H.R. Schinz
- CUVIER, G.L.F.C.D. 1829. Le Règne Animal distribué d'après son organization, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée. Nouvelle édition, Paris, 5 Vols. Poissons, Vol. 2; xviii + 532 pp.



- CUVIER, G.L.F.C.D., A.G. DESMAREST, J. GEOFFROY SAINT-HILAIRE et al. 1827. Planches de Seaba. *Locuplentissimi rerum naturalium Thesauri Accurata Descriptio*. Accompanées d'un text explicatif mis au courant de la Science et rédigé par un réunion de savants. 12ème livraison, F.G. Levrault, Paris.
- CUVIER, G.L.F.C.D. & A. M. VALENCIENNES. 1839. Histoire naturelle des poissons. Des Labroïdes. F.G. Levrault, Paris. Vol. 13; xix + 505 pp.
- CUVIER, G.L.F.C.D. & A. M. VALENCIENNES. 1840. Histoire naturelle des poissons. Suite du livre seizième. Des Labroïdes. Livre dix-septième. Des Malacoptérygiens. Pitois-Levrault, Paris. Vol. 14; xxii + 470 pp.
- DAGET, J. 1968. Les poissons de l'édition allemande du Règne animal de Cuvier. *Bull. Mus. natn. Hist. nat.* 2<sup>e</sup> Série, 39(6) 1967: 1057-1059.
- DAY, F. 1867a. On the fishes of Neilgherry Hills and rivers around their bases. *Proc. Zool. Soc. London* 1867 (pt 2): 281-302.
- DAY, F. 1867b. On some new or imperfectly known fishes of Madras. *Proc. Zool. Soc. London* 1867: 558-565.
- DAY, F. 1870. On some of the fishes in the Calcutta museum. Part I, Part II and Part III. *Proc. Zool. Soc. London* (1869): 511-527; 548-560, 611-614.
- DAY, F. 1871. On the fishes of the Andaman Islands. *Proc. Zool. Soc. London* 1871: 677-705.
- DAY, F. 1873. On some new or imperfectly known fishes of India and Burmah. *Proc. Zool. Soc. London* 1873: 236-240.
- DAY, F. 1877. The fishes of India; being a natural history of the fishes known to inhabit the seas and the fresh waters of India, Burma, and Ceylon. Text and atlas in 4 parts. William Dawson & Sons, London. Part 3: 369-552, pls. 79-138.
- DAY, F. 1888. The fishes of India. Supplement, October, 1888. William Dawson, London: 779-816.
- DE BEAUFORT, L. F. 1939a. On some Indo-Pacific genera of Labroid fishes, with the description of a new genus and species. *Bijdr. Dierkd. Leiden* 27: 14-18.
- DE BEAUFORT, L. F. 1939b. *Xenojulis*, a new genus of labroid fishes. *Philip. J. Sci.* 69(4): 415-421.
- DE BEAUFORT, L. F. 1940. The Fishes of the Indo-Australian Archipelago. VIII. Percomorphi (continued) Cirrithoidea, Labriformes, Pomacentriformes. E.J. Brill Ltd., Leiden. Vol. 8; xv + 508 pp.
- DEBELIUS, H. & KUITER, R.H. 1994. Southeast Asia tropical fish guide. IKAN-Unterwasserarchiv, Frankfurt; 321 pp.
- DE PROCÉ, M. 1822. Note sur plusieurs espèces nouvelles des poissons et des crustacés observés dans un voyage de France a Manilla. *Bull. Soc. Philomath. Paris* 1822: 129-134.
- DE VIS, C. W. 1883. Descriptions of new genera and species of Australian fishes. *Proc. Linn. Soc. N. S. W.* 8: 283-289.
- DE VIS, C. W. 1884. On new fish from Moreton bay. *Proc. R. Soc. Queensland* (1884)1: 144-147.
- DE VIS, C. W. 1885. New Australian fishes in the Queensland Museum. *Proc. Linn. Soc. N. S. W.* 9: 869-887.
- DeKAY, J.E. 1842. Zoology of New-York; or the New-York fauna; comprising detailed descriptions of all the animals hitherto observed within the state of New-York, with brief notices of those occasionally found near its borders. In: *Natural History of New York. Part IV. Fishes*; 415 pp, 79 pls.
- DIEUZEIDE, R. & M. NOVELLA, 1955. Catalogue des Poissons des Côtes algériennes. *Bull. Stn Aquic. Pêch. Castiglione*, III, (6), 1955 [1954]: 1-384.
- DOR, M. 1984. Checklist of the fishes of the Red Sea. The Israel Academy of Sciences and Humanities, Jerusalem; 437 pp.
- EDWARDS, A. J. 1990. Fish and fisheries of Saint Helena Id. Centre for Tropical Coastal Management Studies, University of Newcastle upon Tyne, England.
- EDWARDS, A. J. and C. W. GLASS. 1987. The fishes of Saint Helena Id, South Atlantic Ocean. I. The shore fishes. *J. Nat. Hist.* 21: 617-686.
- EDWARDS, A. & R. LUBBOCK. 1981. A new wrasse (Teleostei: Labridae) of the genus *Xyrichtys* from the Fernando de Noronha Archipelago. *Rev. Suisse Zool.* 88(1): 233-237.
- EIGENMANN, C. H. 1894. Notes on some South American fishes. *Ann. N. Y. Acad. Sci.* 7: 625-637.
- ESCHMEYER W. N. 1990. Catalog of the genera of recent fishes. Calif. Acad. Sci., San Francisco; 697 pp.
- ESCHMEYER W. N., C. J. FERRARIS Jr., M. D. HOANG & D. J. LONG. 1997. Catalog of the fishes of the world, 3 vols. California Academy of Sciences, San Francisco.
- ESCHMEYER W. N. & R. PETHIYAGODA. 1996. A further note on the fish names of J.W. Bennett. *J. South Asian nat. Hist.* 2(1): 143-144.
- EVERMANN, B. W. & M. C. MARSH. 1899. Descriptions of new genera and species from Puerto Rico. *Rep. U. S. Fish Commun.* 24: 351-362.
- EVERMANN, B.W. & L. RADCLIFFE. 1917. The fishes of the west coast of Peru and Titicaca Basin. *Bull. U. S. Natl. Mus.* 95: xi + 166 pp.
- FACCIOLÀ, L. 1885. Indice Ittiologico del Mar di Messina del Prof. Anastasio Cocco per cura del dottor Luigi Facciola. *Famiglia 36<sup>a</sup>. Labridi. Natur. Sicil.*, 4: 192-194; 228-232; 238.
- FACCIOLÀ, L. 1888. Su di un nuovo crenilabro del mar di Messina. *Natur. Sicil.* 8: 22-24
- FACCIOLÀ, L. 1916. Labroidi del mar di Messina. *Monit. Zool. It.* 27(7): 140-152.
- FISCHER, J. G. 1885. Über Fische von Süd-Georgien (pp. 49-65) Inn: *Ichthyologische und herpetologische Bemerkungen. Jahrb. Wiss. Anst. Hamburg* 2: 49-121.
- FLEMING, J. 1828. A history of British animals exhibiting the descriptive characters and systematical arrangements of the genera and species of quadrupeds, birds, reptiles, fishes, mollusca and radiata of the United Kingdom; including the indigenous, extirpated and extinct kinds, together with periodical and occasional visitants. London; 565 pp.
- FORSSKÅL, P. 1775. *Descriptiones Animalium avium, amphibiorum, piscium, insectorum, vermium; quae in itinere orientali observavit. Post mortem auctoris edidit Carsten Niebuhr. Mölleri Hauniae*; 20 + xxxiv + 164 pp., 43 pls.
- FORSTER, J. R. 1771. A catalogue of the animals of Nord America to which are added short directions for collecting, preserving, and transporting all kinds of natural history curiosity..., London; 43 pp.
- FORSTER, J. R. 1795. Indische Zoologie...Nebst einer kurzen vorläufigen Abhandlung ueber den Umfang von Indien und... Halle, 2nd edition; 42 pp., 15 pls..
- FORSTER, J. R. 1844. *Descriptiones Animalium quae in itinere ad maris Australis terras per annos 1772, 1773 et 1774 suscepto collegit observavit et delineavit...nunc demum editae...Henrico Lichenstein. Berlin*; xiii + 424 pp.
- FOURMANOIR, P. 1955. Ichthyologie et pêche aux Comores. *Mem. Inst. Sci. Madagascar*, Ser A, 9: 187-239.
- FOURMANOIR, P. 1967. Sur cinq nouvelles espèces de poissons du Vietnam. *Bull. Mus. natn. Hist. nat. Paris* (2<sup>e</sup> Sér.) 39(2): 267-274.
- FOURMANOIR, P. 1971. Description de quatre poissons trouvés pour la première fois dans les Tuamotus et en Nouvelle-Calédonie. *Cah. Pac.* 15: 127-135.
- FOURMANOIR, P. & P. GUÉZÉ. 1961. Poissons de la Réunion. II. Familles des Labridae, Callyodontidae, Malacanthidae. *Publ. Inst. Rech. Sci. Madagascar*: 5-21.
- FOWLER, H. W. 1900. Observations of fishes from the Caroline Islands. *Proc. Acad. Nat. Sci. Phila.* 51: 482-496.
- FOWLER, H.W. 1901. Contributions to the ichthyology of the tropical Pacific. *Proc. Acad. Nat. Sci. Phila.* 52: 493-528.
- FOWLER, H. W. 1904. A collection of fishes from Sumatra. *J.*



- Acad. Nat. Sci. Phila.* (Ser. 2) 12: 495-560.
- FOWLER, H. W. 1908. A collection of fishes from Victoria, Australia. *Proc. Acad. Nat. Sci. Phila.* 59: 433-444.
- FOWLER, H. W. 1915a. The genus *Cryptotomus* Cope. *Copeia* 1915 (14): 3.
- FOWLER, H. W. 1915b. Cold blooded vertebrates from Florida, the West Indies, Costa Rica and eastern Brazil. *Proc. Acad. Nat. Sci. Phila.* 67: 244-269.
- FOWLER, H.W. 1917. A second collection of fishes from the Panama Canal Zone. *Proc. Acad. Nat. Sci. Phila.* 69: 127-136.
- FOWLER, H. W. 1918. New or little known fishes from the Philippine Islands. *Proc. Acad. Nat. Sci. Phila.* 70: 2-71.
- FOWLER, H.W. 1919. The fishes of the United States "Eclipse" Expedition to West Africa. *Proc. U. S. Natl. Mus.* 56: 195-292.
- FOWLER, H. W. 1925. Fishes of Guam, Hawaii, Samoa, and Tahiti. *Bull. Bishop Mus.* 22: 1-38.
- FOWLER, H. W. 1928. The fishes of Oceania. *Mem. Bishop Mus. Honolulu* 10: i-iii + 1-540.
- FOWLER, H.W. 1934. Fishes obtained by Mr. H.W. Bell-Marley chiefly in Natal and Zululand in 1929 to 1932. *Proc. Acad. Nat. Sci. Phila.* 86: 405-514.
- FOWLER, H. W. 1935. Zoological results of the Third de-Schauensee Siamese Expedition, Part VI. Fishes obtained in 1934. *Proc. Acad. Nat. Sci. Phila.* 87: 89-163.
- FOWLER, H. W. 1941. The George Vanderbilt Oahu survey - the fishes. *Proc. Acad. Nat. Sci. Phila.* 93:247-279.
- FOWLER, H. W. 1944a. Results of the Fifth George Vanderbilt Expedition (1941) (Bahamas, Caribbean Sea, Panama, Galapagos Archipelago and Mexican Pacific Islands) The Fishes. *Monogr. Acad. Nat. Sci. Phila.*, 6: 57-529.
- FOWLER, H.W. 1944. Fishes obtained in the New Hebrides by Dr. Edward L. Jackson. *Proc. Acad. Nat. Sci. Phila.* 96: 155-199.
- FOWLER, H. W. 1945. Fishes from Saipan Id, Micronesia. *Proc. Nat. Acad. Sci. Phila.* 97: 59-74.
- FOWLER, H. W. 1946. A collection of fishes obtained in the Riu Kiu Islands by Captain Ernest R. Tinkham A.U.S. *Proc. Acad. Nat. Sci. Phila.* 98: 123-218.
- FOWLER, H. W. 1949. The fishes of Oceania. Supplement 3. *Mem. Bishop Mus. Honolulu Mem.* 12 (2): 37-186.
- FOWLER, H.W. 1956. A synopsis of the fishes of China. Part VII. The perch like fishes (completed) *Q. J. Taiwan Mus.* 9: 161-354.
- FOWLER, H. W. & B. A. BEAN. 1923. Descriptions of eighteen new species of fishes from the Wilkes exploring expedition, preserved in the United State National Museum. *Proc. U. S. Natl. Mus.* 63: 1-27.
- FOWLER, H. W. & B. A. BEAN. 1928. Contributions to the biology of Philippine Archipelago and adjacent regions. The fishes of the Families Pomacentridae, Labridae, and Callyodontidae, collected by the...streamer "Albatross", chiefly in Philippine seas and adjacent waters. *Bull. U. S. Natl. Mus.* 100: i-viii + 1-525.
- FOWLER, H. W. & H. Steinitz. 1956. Fishes from Cyprus, Iran, Iraq, Israel, and Oman. *Bull. Res. Counc. Isr.* 5B (3-4): 260-292.
- FRANCIS, M. P. 1993. Checklist of the coastal fishes of Lord Howe, Norfolk, and Kermadec Islands, Southwest Pacific Ocean. *Pac. Sci.* 47 (2), 136-170.
- FRICKE, R. 1999. *Fishes of the Mascarene Islands (Réunion, Mauritius, Rodriguez). An annotated checklist, with descriptions of new species.* Koeltz Scientific Books, Koenigstein, Germany; 759 pp.
- GARNAUD, J. 1970. *Symphodus (Crenilabrus) ocellatus bertini*, le Crénilabre rouge, sous espèce nouvelle. *Bull. Inst. Océanogr. Monaco* 69(1411): 1-12.
- GARRETT, A. 1863. Descriptions of new species of fishes. *Proc. Calif. Acad. Sci.* 3: 63-66
- GARRETT, A. 1864. Descriptions of new species of fishes. *Proc. Calif. Acad. Sci.* 3: 103-107.
- GILBERT, C. H. 1890. A preliminary report on the fishes collected by the steamer "Albatross" on the Pacific coast of North America during the year 1889, with descriptions of twelve new genera and ninety-two new species. *Proc. U. S. Natl. Mus.* 13: 49-126.
- GILBERT, C. H. and E. C. STARKS. 1904. The fishes of Panama Bay. *Mem. Calif. Acad. Sci.* 4: 1-304.
- GILCHRIST, J. D. F. & W. W. THOMPSON. 1908. Descriptions of fishes from the coast of Natal. *Ann. S. Afr. Mus.* 6(2): 145-206.
- GILCHRIST, J. D. F. & W. W. THOMPSON. 1909. Descriptions of fishes from the coast of Natal (Part II) *Ann. S. Afr. Mus.* 6(3): 213-279.
- GILCHRIST, J. D. F. & W. W. THOMPSON. 1914. Descriptions of fishes from the coast of Natal (Part IV) *Ann. S. Afr. Mus.* 13: 65-95.
- GILL, A. C. & J. E. RANDALL. 1999. *Julis horsfieldii* Val., 1839, an unused senior synonym of *Cychlops cyclophthalmus* Miller & Troschel, 1849 (Teleostei: Pseudochromidae). *Rev. fr. Aquariol.* 25 (3-4) [1998]: 95-97.
- GILL, T. N. 1862. Catalogue of the fishes of the Lower California in the Smithsonian Institution, collected by Mr. J. Xantus. *Proc. Acad. Nat. Sci. Phila.* 14(5): 140-151.
- GILL, T. N. 1863. Notes on the labroid fishes of the western coast of North America. *Proc. Acad. Nat. Sci. Phila.* 15(5): 221-224.
- GILL, T. N. 1864. Description of a new labroid genus allied to *Trachocopus* Gthr. *Proc. Acad. Nat. Sci. Phila.* 1864 (16): 57-59.
- GILL, T.N. 1891. On the genera *Labrichthys* and *Pseudolabrus*. *Proc. U. S. Natl. Mus.* 14: 395-404.
- GIRARD, C. F. 1854. Observations upon a collection of fishes made on the Pacific coast of the United States, by Lieut. W. P. Trowbridge, U. S. A., for the Museum of the Smithsonian Institution. *Proc. Acad. Nat. Sci. Phila.* 7(4): 142-156.
- GISTEL, J. 1848. *Naturgeschichte des Thierreichs, für höhere Schulen.* Stuttgart; xvi + 216 pp., 32 pls.
- GMELIN, J. F. 1789. *Pisces.* pp. 1126-1516. In *Caroli a Linné, Systema Naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis.* Ed. XIII, 1(3).
- GOLANI, D. & O. SONIN. 1992. New records of the Red Sea fishes *Pterois miles* (Scorpaenidae) and *Pteragogus pelycus* (Labridae) from the eastern Mediterranean Sea. *Jpn. J. Ichthyol.* 39(2): 167-169.
- GOMON, M. F. 1974a. A revision of the genus *Bodianus* (family Labridae), with a phylogenetic hypothesis of related genera in tribe Hypsigenyini. Dissertation, Univ. of Miami, Florida; 653 pp.
- GOMON, M. F. 1974b. A new eastern Pacific labrid (Pisces), *Decodon melasma*, a geminate species of the western Atlantic *D. puellaris*. *Proc. Biol. Soc. Wash.* 87(19): 205-216.
- GOMON, M. F. 1977. A new genus and eastern Pacific species of Bodianine labrid fish. *Proc. Biol. Soc. Wash.* 89: 621-629.
- GOMON, M. F. 1987. New Australian fishes. Part 6. New species of *Lepidotrigla* (Triglidae), *Choerodon* (Labridae) and *Zebrias* (Soleidae) *Mem. Mus. Vict.* 48(1): 17-23.
- GOMON, M. F. 1997. Relationships of fishes of the labrid tribe Hypsigenyini. *Bull. Mar. Sci.* 60(3): 789-871.
- GOMON, M. F. & G. R. ALLEN. 1987. New Australian fishes. Part 7. A new species of *Choerodon* (Labridae) *Mem. Mus. Vict.* 48(1): 25-26.
- GOMON, M. F. & P. FORSYTH. 1990. Labridae, pp. 868-882. In: J. C. Quero, J. C. Hureau, C. Karrer, A. Post & L. Saldanha (eds), *Check-list of the fishes of the eastern tropical Atlantic.* Vol. 2, UNESCO, Paris.
- GOMON, M. F. & J. C. M. GLOVER & R. H. KUITER. 1994. The fishes of Australia's South coast. State Print, Adelaide;



- 992 pp.
- GOMON, M. F. & R. LUBBOCK. 1980. A new hogfish of the genus *Bodianus* (Teleostei: labridae) from Islands of the Mid-Atlantic Ridge. *Northeast Gulf Sci.* 3(2): 104-111.
- GOMON, M. F. & W. D. MADDEN. 1981. Comments on the labrid fish subgenus *Bodianus* (*Trochocopus*) with description of a new species from the Indian and Pacific Oceans. *Rev. fr. Aquariol.* 7: 121-124.
- GOMON, M. F. & J. R. PAXTON. 1986. A review of the Odacidae, a temperate Australian-New Zealand labroid fish family. *Indo-Pac. Fishes* 8: 1-57.
- GOMON, M. F. & J. E. RANDALL. 1975. A new deepwater fish of the labrid genus *Bodianus* from Hawaii and the Ryukyu Islands. *Bull. Mar. Sci.* 25: 443-444.
- GOMON, M. F. & J. E. RANDALL. 1978. Review of the Hawaiian fishes of the labrid tribe Bodianini. *Bull. Mar. Sci.* 28(1): 32-48.
- GOMON, M. F. & B. C. RUSSELL. 1981. [Oral presentation] International Conference on the Systematics and Evolution of Indo-Pacific Fishes, Sydney, September 1981.
- GOODE, G. B. 1877. A preliminary catalogue of the reptiles, fishes, and leptocephalians of the Bermudas, with descriptions of four species of fishes believed to be new. *Am. J. Sci.* 14: 289-298.
- GOREN, M. & M. DOR. 1994. An updated checklist of the fishes of the Red Sea. CLOFRES II. The Israel Academy of Sciences and Humanities, Jerusalem, Israel; xii + 120 pp.
- GOURRET, P. 1893. Ichthyologie Marseillaise. Famille des Labroïdes. *Ann. Mus. Hist. Nat. Marseille* 4(3): 1-84.
- GRAY, J. E. 1830-35. Illustrations of Indian Zoology; chiefly selected from the collection of Major-General Hardwicke. XX parts in 2 vols, pls 1-202 [for date of parts see F. C. Sawyer 1953, *J. Soc. Bibliogr. Nat. Hist.* 3: 48-55. Fishes on pls. 84-99 in vol. 1 and 88-102 in vol. 2].
- GRAY, J. E. 1854. Catalogue of fish collected and described by Laurence Theodore Gronow, now in the British Museum, London. vii + 196.
- GRIFFITH, E. 1834. The class Pisces, arranged by the Baron Cuvier, with supplementary additions by Edward Griffith... and Lieut. Col. Charles Hamilton Smith (and P.B. Lord) London, 680 pp, 62 pls.
- GRONOW, L. T. 1763. *Zoophylacii Gronoviani fasciculus primus exhibens animalia quadrupeda, amphibia atque pisces, quae in museo suo adservat, rite examinavit, systematice disposuit, descripsit atque iconibus illustravit* Laur. Theod. Gronovius, J.U.D.... Lugduni Batavorum. Zoophyl. Gronov.: 1-136.
- GROVE, J. S. & R. J. LAVENBERG. 1997. The fishes of the Galápagos Islands. Stanford University Press, Stanford, California; xlv + 863 pp.
- GUDGER, E. W. 1929. Nicolas Pike and his unpublished paintings of the fishes of Mauritius, Western Indian Ocean, with an index to the fishes. *Bull. Am. Mus. Nat. Hist.* 58 (part. 9): 489-530.
- GUÉRIN-MÉNEVILLE, F. E. 1829-38. *Iconographie du Règne Animal de G. Cuvier...* Vol IV. Poissons: 1-44, Pls. 1-70
- GUICHENOT, A. 1847. Description de deux nouvelles espèces de *Cossyphus*. *Rev. Mag. Zool.* 11: 14-15.
- GUICHENOT, A. 1860. Notice sur un nouveau poisson du groupe des *Ctenolabres*. *Rev. Mag. Zool.* (Ser. 2) 12(4): 152-154.
- GUICHENOT, A. 1863. Faune ichthyologique. Notes sur l'île de la Réunion. Paris, 32 p.
- GUICHENOT, A. 1865. Catalogue des Scaridés de la collection du Muséum de Paris. *Mem. Soc. Sci. Nat. Cherbourg* 11: 1-75.
- GUICHENOT, A. 1869. Notice sur quelques poissons inédits de Madagascar et de la Chine. *Nouv. Arch. Mus. Hist. Nat. Paris* 5: 193-206.
- GULIA, G. 1861. *Tentamen ichthyologiae Melitensis sistens methodo naturali stirpium objectis nonnullis observationibus genera ac species, a recentioribus de re zoologica scriptoribus admissas piscium insularum Melitae quos *Gavinus Gulia* Medicinae et Chirurgiae doctor,... discriminare potuit.* Melitae, Ex Typographia Anglica; 71 pp.
- GÜNTHER, A. 1861. A preliminary synopsis of the labroid genera. *Ann. Mag. Nat. Hist.* (Ser. 3) 8: 382-389.
- GÜNTHER, A. 1862. Catalogue of the fishes in the British Museum. Catalogue of the Acanthopterygii Pharyngognathi and Anacanthini in the collection of the British Museum. British Museum (Natural History), London. Vol. 4; xxi + 534 pp.
- GÜNTHER, A. 1864. On some new species of Central American fishes. *Proc. Zool. Soc. London* 1864: 23-27.
- GÜNTHER, A. 1867. Description of some new or little known species of fishes in the collection of the British Museum. *Proc. Zool. Soc. London* 1867: 99-104.
- GÜNTHER, A. 1868. Report on a collection of fishes made at St. Helena by J. C. Melliss, Esq. *Proc. Zool. Soc. London* 1868: 225-228.
- GÜNTHER, A. 1872a. Report on several collections of fishes recently obtained for the British Museum. *Proc. Zool. Soc. London* 1871: 652-675.
- GÜNTHER, A. 1872b. On some new species of reptiles and fishes collected by J. Brenchley, Esq. *Ann. Mag. Nat. Hist.* (Ser. 4) 10: 418-426.
- GÜNTHER, A. 1876. Remarks on fishes, with descriptions of new species in the British Museum, chiefly from Southern Seas. *Ann. Mag. Nat. Hist.* (Ser. 4) 17: 389-402.
- GÜNTHER, A. 1880. Report on the shore fishes procured during the voyage of H.M.S. Challenger in the years 1873-1876. In: Report on the scientific results of the voyage of H.M.S. Challenger in the years 1873-1876. Zoology, vol. 1: 1-82.
- GÜNTHER, A. 1881. Andrew Garrett's Fische der Südsee beschreiben und redigirt von A. Günther. *J. Mus. Godeffroy* Fasc. XV (7): 217-256.
- GÜNTHER, A. 1909. Andrew Garrett's Fische der Südsee. *J. Mus. Godeffroy* Fasc. XVI (8): 261-388.
- HARDY G. S. 1990. Fish types in the national Museum of New Zealand. *Nat. Mus. N. Zeal. Miscellaneous Series*. 21, 17 pp.
- HARRY, R. R. 1950. A new parrot fish of the genus *Xenoscarus* from the Gulf of California. *Amer. Midl. Nat.* 43: 146-151.
- HASSELQUIST, F. 1762. D. F. Hasselquists ... Raiser nach Palästina. A German translation by T. H. Gadebusch of the *Iter Palaestinum* 1757. [Rejected for nomenclatural purposes in Opinion 57 because the name therein were not reinforced by adoption or acceptance. Dir. 32.]
- HECTOR, J. 1884. Notes on New Zealand ichthyology. *Trans. Proc. N. Zeal. Inst.* 1883 16: 322-323.
- HEISER, J. B. 1981. Review of the labrid genus *Thalassoma* (Pisces: Teleostei) Dissertation, Cornell University; 252 pp.
- HELLER, E. & R. E. SNODGRASS. 1903. Papers from the Hopkins Stanford Galapagos expedition, 1898-1899. XV: New fishes. *Proc. Wash. Acad. Sci.* 5: 189-229.
- HEMPRICH, F. G. & C. G. EHRENBERG. 1899. *Symbolae physicae, seu icones adhuc ineditae ... ex itineribus per Libyam, Aegyptiam, Nubiam, Dongolam, Syriam, Arabiam et Habessiniam publico institutis sumptu ... studio annis MDCCCXXX - MDCCCXXV redierunt.* Zoologica. Berlin. Symbolae physicae: 1-17.
- HERRE, A. W. C. T. 1932. Five new philippine fishes. *Copeia* 1932(1): 139-142.
- HERRE, A. W. C. T. 1933. Twelve new philippine fishes. *Copeia* 1933(1): 17-25.
- HERRE, A. W. C. T. 1935. New fishes obtained by the Crane Pacific expedition. *Field Mus. Nat. Hist. Publ. Zool. Ser.* 18: 383-438.
- HERRE, A. W. C. T. 1950. A new labrid and other interesting Philippine fish records. *Philip. J. Sci.* 78(2): 149-153.



- HERRE, A. W. C. T. 1958. Check list of Philippine fishes. *U. S. Fish Wildl. Serv. Res.* 20: 1-977..
- HERZENSTEIN, S. 1896. Über einige neue und seltene Fische des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften. *Ann. Mus. Zool. Acad. Imp. Sci. St. Petersburg* 1-2: 1-14.
- HILDEBRAND, S. F. 1946. A descriptive catalog of the shore fishes of Peru. *Bull. U. S. Natl. Mus.* 189: i-xi + 1-530.
- HOUTTUYN, M. 1782. Beschrijving van eenige Japansche visschen, en andere zee-schepzelen. *Verh. Holl. Maatsch. Wet. Haarlem* 20: 311-350.
- HUBRECHT, A. A. W. 1876. On an new species of *Coris* from the Molucca Archipelago. *Ann. Mag. Nat. Hist.* 17: 214-215.
- HUTCHINS, J. B. & S. M. MORRISON. 1996. *Pictilabrus brauni*, a new species of labrid fish from South-western Australia. *Rev. fr. Aquariol.* 23 (1-2): 39-42.
- HUTTON, F. W. 1872. Catalogue with diagnoses of the species. In: F.W. Hutton & J. Hector, Fishes of New Zealand. Colonial Museum and Geological Survey Department, Wellington; xvi + 93 pp.
- HUTTON, F. W. 1873. Contributions to the ichthyology of New Zealand. *Trans. Proc. N. Zeal. Inst.* 1873(5): 259-272.
- HUTTON, F. W. 1877. Contributions to the ichthyology of New Zealand. *Trans. Proc. N. Zeal. Inst.* 9: 353-354.
- HUTTON, F. W. 1880. Description of a new fish. *Trans. Proc. N. Zeal. Inst.* 12: 455-456.
- HUTTON, F. W. 1890. List of New Zealand fishes. *Trans. Proc. N. Zeal. Inst.* 22: 275-285.
- International Commission of Zoological Nomenclature. 1995. Opinion 1799. *Naucratis Rafinesque*, 1810 and *Xyrichtys Cuvier*, 1814: conserved. *Bull. Zool. Nom.* 52(1): 109-110.
- ISHIKAWA, C. 1904. Notes on some new or little known fishes of Japan. *Proc. Nat. Hist. Tokyo Mus.* 1: 1-17.
- JATZOW, R. & H. LENZ. 1898. Fische von Oost-Africa, Madagaskar und Aldabra. *Abh. Senckenb. Naturforsch. Ges.* 21(3): 497-531.
- JENKINS, O. P. 1901. Descriptions of new species of fishes from the Hawaiian Islands belonging to the family of Labridae and Scaridae. *Bull. U. S. Fish. Comm.* 19: 45-65.
- JENKINS, O. P. 1903. Report on collections of fishes made in Hawaiian Islands, with descriptions of new species. *Bull. U. S. Fish. Comm.* 22: 415-511.
- JENKINS, O. P. & B. W. EVERMANN. 1889. Description of eighteen new species of fishes from the Gulf of California. *Proc. U. S. Natl. Mus.* 11: 137-158.
- JENYNS, L. J. 1842. Pisces. In: The zoology of the voyage of H.M. S. Beagle, under the command of the captain Fitzroy, during the years 1832-1836, London. Part 4: 97-172.
- JOHNSTON, R. M. 1884. Notice of recent additions to the list of Tasmanian fishes. *Pap. Proc. R. Soc. Tasmania* for 1883: 193-195.
- JOHNSTON, R. M. 1891. Further observations upon the fishes and fishing industries of Tasmania, together with a revised list of indigenous species. *Pap. Proc. R. Soc. Tasmania* for 1890: 22-46.
- JORDAN, D. S. 1885. Supplementary notes of North American Fishes. *Proc. U. S. Natl. Mus.* 7: 545-548.
- JORDAN, D. S. 1888. Description of a new species of *Xyrichtys* (*X. jessiae*) from the Gulf of Mexico. *Proc. U. S. Natl. Mus.* 10: 698.
- JORDAN, D.S. 1890. A review of the labroid fishes of America and Europe. *Rep. U. S. Fish. Commun.* 15 [1887]: 559-699.
- JORDAN, D. S. & C.H. BOLLMANN. 1889. List of fishes collected at Green Turtle Cay, in the Bahamas, by Charles L. Edwards, with descriptions of three new species. *Proc. U. S. Nat. Mus.* 11: 549-553.
- JORDAN, D. S. & B. W. EVERMANN. 1886. Description of six new species of fishes from the Gulf of Mexico, with notes on other species. *Proc. U. S. Nat. Mus.* 9: 466-476.
- JORDAN, D. S. & B. W. EVERMANN. 1896. A check-list of the fishes and fish-like vertebrates of North and Middle America. *Rep. U. S. Fish. Comm.* 21: 207-584.
- JORDAN, D. S. & B. W. EVERMANN. 1898. The fishes of North and Middle America: a descriptive catalog of the fish-like vertebrate found in water of North America, north of the isthmus of Panama. Part II. *Bull. U. S. Natl. Mus.* 47: i-xxx + 1241-2183.
- JORDAN, D.S. & B.W. EVERMANN. 1902. Notes on a collection of fishes from the Id of Formosa. *Proc. U. S. Natl. Mus.* 25: 315-368.
- JORDAN, D. S. & B. W. EVERMANN. 1903. Descriptions of new genera and species of fishes from the Hawaiian Islands. *Bull. U. S. Fish. Comm.* 22: 161-208.
- JORDAN, D. S., B. W. EVERMANN & H. W. CLARK. 1930. Check-list of the fishes and fishlike vertebrates of North and Middle America north of the northern boundary of Venezuela and Colombia. *Rep. U. S. Comm. Fish.* for 1928 (Pt. 2): 1-670.
- JORDAN, D. S., B. W. EVERMANN & S. TANAKA. 1927. Notes on new or rare fishes from Hawaii. *Proc. Calif. Acad. Sci.* (Ser. 4) 16: 649-680.
- JORDAN, D. S. & C. H. GILBERT. 1879. Notes on the fishes of Beaufort Harbor, North Carolina. *Proc. U. S. Natl. Mus.* 1(55): 365-388.
- JORDAN, D. S. & C. H. GILBERT. 1882a. Notes on a collection of fishes, made by Lieut. H.E. Nichols, U.S.N., on the west coast of Mexico, with descriptions of five new species. *Proc. U. S. Natl. Mus.* 4: 225-233.
- JORDAN, D. S. & C. H. GILBERT. 1882b. Descriptions of thirty-three new species of fishes from Mazatlan, Mexico. *Proc. U. S. Natl. Mus.* 4: 338-365.
- JORDAN, D. S. & C. H. GILBERT. 1882c. Notes on fishes observed about Pensacola, Florida and Galveston, Texas, with description of new species. *Proc. U. S. Natl. Mus.* 5: 241-307.
- JORDAN, D. S. & C. H. GILBERT. 1884. Description of ten new species of fishes from Key West, Florida. *Proc. U. S. Natl. Mus.* 7: 24-32.
- JORDAN, D. S. & E. K. JORDAN. 1922. A list of the fishes of Hawaii, with notes and descriptions of new species. *Mem. Carnegie Mus.* 10: 1-92.
- JORDAN, D. S. & R. E. RICHARDSON. 1909. A collection of the fishes of the Id of Formosa or Taiwan, based on the collection of Dr. Hans Sauter. *Mem. Carnegie Mus.* 4: 159-204.
- JORDAN, D. S. & C. M. RUTTER, 1897. A collection of fishes made by Joseph Seed Roberts in Kingston, Jamaica. *Proc. Acad. Nat. Sci. Phila.* 49: 91-133.
- JORDAN, D. S. & A. SEALE, 1905. List of the fishes collected by Dr. Bashford Dean on the Id of Negros, Philippines. *Proc. U. S. Natl. Mus.* 28: 769-803.
- JORDAN, D. S. & A. SEALE. 1906. The fishes of Samoa. Description of the species found in the archipelago, with a provisional check-list of the fishes of Oceania. *Bull. Bur. Fish.* 25: 173-465.
- JORDAN, D. S. & A. SEALE. 1907. Fishes of the Islands of Luzon and Panay. *Bull. Bur. Fish.* 26: 1-48.
- JORDAN, D. S. & J. O. SNYDER. 1901. List of fishes collected in 1883 and 1885 by Pierre Louis Jouy and preserved in the United States National Museum, with descriptions of six new species. *Proc. U. S. Nat. Mus.* 23: 740-769.
- JORDAN, D. S. & J. O. SNYDER. 1902. A review of the labroid fishes and related forms found in the waters of Japan. *Proc. U. S. Nat. Mus.* 24(1266): 595-662.
- JORDAN, D. S. & J. O. SNYDER. 1904. On a collection of fishes made by Mr. Alan Owston in the deep waters of Japan. *Smithson. Misc. Collect.* 45: 230-240.
- JORDAN, D.S. & J.O. SNYDER. 1907. Notes on fishes of Hawaii, with descriptions of new species. *Bull. Bur. Fish.* 26: 205-218.



- JORDAN, D.S. & J. SWAIN. 1884. Descriptions of scaroid fishes from Havana and Key West, including 5 new species. *Proc. U. S. Natl. Mus.* 7: 81-102.
- JORDAN, D. S. & W. F. THOMPSON. 1914. Record of the fishes obtained in Japan in 1911. *Mem. Carnegie Mus.* 6: 205-213.
- JORDAN, E. K. 1925. Notes on the fishes of Hawaii, with descriptions of six new species. *Proc. U. S. Natl. Mus.* 66: 1-43.
- KAMOHARA, T. 1952. Revised descriptions of the offshore bottom-fishes of Prov. Tosa, Shikoku, Japan. *Rep. Kochi Univ. Nat. Sci.* 3: 1-122.
- KAMOHARA, T. 1958. A review of the labrid fishes found in the waters of Kochi Prefecture, Japan. *Rep. Usa Mar. Biol. Stn.* 5: 1-20.
- KANAZAWA, R. H. 1952. A new name for the Peruvian parrotfish *Scarus dubius* Hildebrand preoccupied by *S. dubius* Bennett. *Copeia* 1952: 203.
- KAROLI, J. 1882. *Prodromus piscium Asiae orientalis a Domino Joanne Xantus annis 1868-79 collectorum.* *Természetr. Füzet.* 5: 147-187.
- KAUFMAN, L. S. & K. F. LIEM. 1982. Fishes of the suborder Labroidae (Pisces: Perciformes): phylogeny, ecology, and evolutionary significance. *Breviora* 472: 1-19.
- KENDALL, W. C. & L. RADCLIFFE. 1912. Reports on the scientific results of the expedition to the tropical Pacific...XXV. The shores fishes. *Mem. Mus. Comp. Zool. Harvard Coll.* 35: 77-172.
- KITTLIZ, F. H. von. 1858. Denkwürdigkeiten einer Reise nach dem russischen Amerika, nach Mikronesien und durch Kamschatka. Gotha. 2 vols.
- KLAUSEWITZ, W. 1962. Taxonomische Untersuchungen an der Gattung *Gomphosus* (Pisces: percomorphi, Labridae) *Senckenb. Biol.* 43(6): 433-435.
- KLAUSEWITZ, W. 1967. Die physiographische Zonierung der Saumriffe von Sarso. *Meteor. Forsch.-Ergebn.* D(2): 44-68.
- KLAUSEWITZ, W. 1976. *Cirrhilabrichthys filamentosus*, n. gen., n. sp. aus der Javasee (Pisces: Labridae) *Senckenb. Biol.* 57(1/3): 11-14.
- KLEIN, J. T. 1776. Gesellschaft Schauplatz, 2: 1-842.
- KLUNZINGER, C. B. 1871. Synopsis der Fische des Rothen Meeres. II. Theil. *Verh. K.-K. Zool.-Bot. Ver. Ges. Wien* 21: 441-688.
- KLUNZINGER, C. B. 1872. Zur Fischfauna von Süd-Australien. *Arch. Naturgeschichte.* 38: 17-47.
- KLUNZINGER, C. B. 1880. Die von Müller'sche Sammlung australischer Fische in Stuttgart. *Sitzungsber. Akad. Wiss. Wien* 80(1): 325-430.
- KNER, R. 1860. Zur Charakteristik und Systematik der Labroiden. *Sitzungsber. Akad. Wiss. Wien* 40: 41-57.
- KNER, R. 1864. [Untitled, headed by "Als neue Gattungen werden vorgeführt: ..."] *Anz. Akad. Wiss. Wien* 1: 185-187.
- KNER, R. 1865a. Fische aus dem Naturhistorischen Museum dem Hrn J. C. Godeffroy & Sohn in Hamburg. *Denkschr. Akad. Wiss. Wien* 24: 1-12.
- KNER, R. 1865b. Reise der österreichischen Fregatte "Novara" um die Erde in den Jahren 1857-1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbain. Zoologischer Theil. Fische 1(2): 111-272.
- KNER, R. 1867. Neue Fische aus dem Museum der Herren J. Cäs. Godeffroy & Sohn in Hamburg. *Sitzungsber. Akad. Wiss. Wien* 56: 709-728.
- KNER, R. 1868. IV. Folge neuer Fische aus dem Museum der Herren Joh. Cäs. Godeffroy & Sohn in Hamburg. *Sitzungsber. Akad. Wiss. Wien* 58: 293-356.
- KNER, R. & F. STEINDACHNER. 1867. Neue Fische aus dem Museum der Herren J. Cäs. Godeffroy & Sohn in Hamburg. *Sitzungsber. Akad. Wiss. Wien* 54: 356-395.
- KOSSMANN, R. & H. RAUBER. 1877. Wissenschaftliche Reise in die Küstengebiete des Rothen Meeres, Fische. *Verh. natur.-med. Ver. Heidelb.* 1: 378-420.
- KOTTELAT, M. & A. WHEELER. 1997. Comments on the proposed conservation of the names *Labrus* Linnaeus, 1758, *Cichlasoma* Swainson, 1839 and *Polycentrus* Müller & Troschel, 1848 by the designation of neotypes for *Labrus bimaculatus* Linnaeus, 1758 and *L. punctatus* Linnaeus, 1758 (Osteichthyes, Perciformes). *Bull. Zool. Nom.* 55(4): 237-239.
- KUITER, R. H. 1992. Tropical reef-fishes of the western Pacific Indonesia and adjacent waters. Panerbit, Jakarta; 314 pp.
- KUITER, R. H. 1993. Coastal fishes of south-eastern Australia. Crawford House Press, Bathurst, New South Wales; 437 pp.
- KUITER, R.H. & G.R. ALLEN. 1999. Descriptions of three new wrasses (Teleostei: Perciformes: Labridae: *Paracheilinus*) from Indonesia and north-western Australia with evidence of possible hybridisation. *Aqua, J. Ichthyol. Aq. Biol.* 3(3): 119-132.
- KUITER, R. H. & J. E. RANDALL. 1981. Three look-alike Indo-Pacific labrid fishes, *Halichoeres margaritaceus*, *H. nebulosus* and *H. miniatus*. *Rev. fr. Aquariol.* 8(1): 13-18.
- KUITER, R.H. & J.E. RANDALL. 1995. Four new Indo-Pacific wrasses (Perciformes: Labridae) *Rev. fr. Aquariol.* 21 [1994] (3-4): 107-118.
- KULLANDER, S.O. 1997. Comments on the proposed conservation of the names *Labrus* Linnaeus, 1758, *Cichlasoma* Swainson, 1839 and *Polycentrus* Müller & Troschel, 1848 by the designation of neotypes for *Labrus bimaculatus* Linnaeus, 1758 and *L. punctatus* Linnaeus, 1758 (Osteichthyes, Perciformes). *Bull. Zool. Nom.* 54(2): 109-115.
- KYUSHIN, K., K. AMAOKA K. NAKAYA & H. IDA. 1977. Fishes of Indian Ocean. Japan Marine Fishery Resource Research Center. Fishes Indian Ocean: 1-392.
- LABILLARDIERE, J.J. 1800. Relation du voyage à la recherche de la Pêrouse fait...1791. Vol. 1. Jansen, Paris; xvi + 422 pp.
- LACEPÈDE, B. G. E. 1800. Histoire Naturelle des Poissons. Paris, Plassan. Vol. 2; lxiv + 632 pp., 20 pls.
- LACEPÈDE, B. G. E. 1801. Histoire Naturelle des Poissons. Paris, Plassan. Vol. 3; lxvi + 558 pp., 34 pls.
- LACEPÈDE, B. G. E. 1802. Histoire Naturelle des Poissons. Paris, Plassan. Vol. 4; lxiv + 728 pp., 16 pls.
- LACEPÈDE, B. G. E. 1803. Histoire Naturelle des Poissons. Paris, Plassan. Vol. 5; xlviii + 803 pp., 21 pls.
- LACEPÈDE, B. G. E. 1804. Sur plusieurs animaux de la Nouvelle-Hollande dont la description n'a pas encore été publié. *Ann. Mus. Hist. Nat. Paris* 4: 184-211.
- LAY, G. T. & E. T. BENNETT. 1839. Fishes, pp. 41-75. In: Zoology of Captain Beechey's Voyage; compiled from the collections and notes made by Captain Beechey, the officers and naturalist of the expedition during a voyage to the Pacific and Behring's Straits performed in His Majesty's ship "Blossom" in 1825-1828. Henry G. Bohn, London.
- LESSON, R.P. 1828. Description du nouveau genre *Ichthyophis* et des plusieurs espèces inédites ou peu connues des poissons, recueillis dans le voyage autour du monde de la Corvette "La Coquille". *Mem. Soc. Hist. Nat. Paris* 4: 397-412.
- LESSON, R. P. 1830-31. Poissons. In: L. I. Duperrey, Voyage autour du monde... sur la corvette de La Majesté La Coquille, pendant les années 1822, 1823, 1824 et 1825...Zoologie. *Zool.* 2(pt 1): 66-238.
- LIÉNARD, E. 1845. Description d'une nouvelle espèce de girelle, dite *Julis laportei*. *Act. Soc. Linn. Bordeaux* 14: 112-114.
- LINNAEUS, C. 1758. *Systema Naturae*, Ed. X. (*Sistema naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Tomus I. Editio decima, reformata*) Holmiae 1; 824 pp.
- LINNAEUS, C. 1766. *Sistema Naturae sive regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis.* Laurentii Salvii,



- Holmiae, 12<sup>th</sup> Ed. Vol. 1: 1-532.
- LOBEL, P.S. 1981. *Bodianus prognathus* (Labridae, Pisces), a new longnose hogfish from the central Pacific. *Pac. Sci.* 35 (1): 45-50.
- LONGLEY, W. H. & S. F. HILDEBRAND. 1941. Systematic catalogue of the fishes of Tortugas, Florida, with observations on color, habits, and local distribution. *Pap. Tortugas Lab. Carnegie Inst.* 34: i-xiii + 1-331, 34 pls.
- LÖNNBERG, E. 1896. Linnean type-specimens of birds, reptiles, batrachians and fishes in the Zoological Museum of the R. University in Uppsala. *Bihang Kongliga Svenska Vetensk-Akad. Handlingar, Stockholm* 22: 3-45
- LOWE, R. T. 1834. Characters of a new genus *Leirus* and of several new species of fishes from Madeira. *Proc. Zool. Soc. London* 1: 142-144.
- LOWE, R.T. 1838. A synopsis of the fishes of Madeira; with the principal synonyms, Portuguese names, and characters of new genera and species. *Trans. Zool. Soc. London* 2(3): 173-200.
- LOWE, R. T. 1839. A supplement to a synopsis of the fishes of Madeira. *Proc. Zool. Soc. London* 7: 76-92.
- LOWE, R.T. 1840. Description of certain new species of Madeiran fishes, with additional information to those relating already described. *Proc. Zool. Soc. London* 8: 36-39.
- LOWE, R. T. 1849. A supplement to a synopsis of fishes of Madeira. *Trans. Zool. Soc. London* 13: 361.
- LOWE, R. T. 1850. An account of fishes discovered or observed in Madeira since the year 1842. *Proc. Zool. Soc. London* 18: 247-253.
- LOZANO REY, L. 1952. Peces fisoclistos, Subserie Toracicos. *Mems R. Acad. Cienc. exact. fis. nat. Madr., ser.: Cien. nat., Primate parte*, 14: pp. xv+1-378, fig. 1-20, pl. I-XXX; Segunda parte, 14: pp. 379-705, fig. 21-31, pl. XXI-LI.
- MABUCHI, K. & T. NAKABO. 1997. Revision of the genus *Pseudolabrus* (Labridae) from the East Asian waters. *Ichthyol. Res.* 44(4): 321-334.
- MACLEAY, W. 1878a. The fishes of Port Darwin. *Proc. Linn. Soc. N. S. W.* 2: 344-367.
- MACLEAY, W. 1878b. Descriptions of some new fishes from Port Jackson and King George's Sound. *Proc. Linn. Soc. N. S. W.* 3: 33-37.
- MACLEAY, W. 1881. Descriptive catalogue of the fishes of Australia. Part III. *Proc. Linn. Soc. N. S. W.* 6: 1-138.
- MACLEAY, W. 1883a. Contribution to a knowledge of the fishes of New Guinea, No. 3. *Proc. Linn. Soc. N. S. W.* 7: 585-598.
- MACLEAY, W. 1883b. Contribution to a knowledge of the fishes of New Guinea, No. 4. *Proc. Linn. Soc. N. S. W.* 8: 252-280.
- MARTENS, E. von. 1876. Die Preussische Expedition nach Ost-Asien: nach amtlichen Quellen, Zoologische Theil, Berlin 1867-76, v. 2, p. 397.
- MASUDA, H., C. ARAGA & T. YOSHINO. 1975. Costal fishes of southern Japan. Tokai University Press, Tokyo; 379 pp., 142 pls.
- MASUDA, H. & Y. KOBAYASHI. 1994. Grand Atlas of Fish Life Modes. Tokai University Press, Tokyo; 465 pp (in Japanese).
- MCCULLOCH, A. R. 1912. Notes on some Western Australian fishes. *Rec. West. Aust. Mus.* 1: 1-20.
- MCCULLOCH, A. R. 1913. Studies in Australian fishes, No. 3. *Rec. West. Aust. Mus.* 9: 355-389.
- MCCULLOCH, A. R. 1929. A check-list of the fishes recorded from Australia. *Mem. Aust. Mus. Memoir* 5 (pt 2): 145-329.
- MEE, J. K. L. & S. R. HARE. 1995. *Coris nigrotaenia*, a new wrasse (Perciformes: Labridae) from the northwestern Indian Ocean. *J. South Asian nat. Hist.* 1(2): 247-254.
- MEEK, S. E. & S. F. HILDEBRAND. 1928. Marine fishes of Panama. Part III. *Field Mus. Nat. Hist. Publ. Zool. Ser.* 15: 709-1045.
- METZELAAR, J. 1919. Report on the fishes, collected by Dr. J. Boeke in the Dutch West Indies 1904-1905, with comparative notes on marine fishes of tropical West Africa. F. J. Belanfante's- Gravenhage; 314 pp.
- MIRANDA-RIBEIRO, A. de. 1918. Dous generos e tres especies novas de peixes Brasileiros determinados nas colleções do Museu Paulista. *Rev. Mus. Paulista* 10: 787-791.
- MITCHILL, S. L. 1814. Report in part of Samuel L. Mitchill, M.D., on the fishes of New York. New York: 1-28.
- MITCHILL, S. L. 1815. The fishes of new York, described and arranged. *Trans. Lit. Phil. Soc. N.Y.* 1: 355-492.
- MONOD, T. 1973. Scaridae, pp. 444-445. In: J.C. Hureau & T. Monod (eds.) Check-list of the fishes of the north-eastern Atlantic and of the Mediterranean. Unesco, Paris. Vol. 1.
- MONTROUZIER, X. 1857. Essai sur la faune de l'île de Woodlark ou Moïou. *Ann. Soc. Imp. Agric. Hist. Nat. Lyon* 8 [1856]: 417-504 (Reprinted, de Barret, Lyon, pp. 139-222).
- MORRIS, S. L. 1974. A new labrid fish from the North Kenya banks. *Copeia* 1974(3): 632-634.
- MOWBRAY, L. L. 1925. A new Bahaman razor fish. *Mar. Life* 1(1): 1-2.
- MÜLLER, J. & F. H. TROSCHER. 1848. Fische. pp. 618-644. In: Reisen in British-Guiana in den Jahren 1840-44. Im Auftrag Sr Majestät des Königs von Preussen ausgeführt von Richard Schomburgk. Vol. 3, Berlin.
- MYERS, R. F. 1989. Micronesian Reef Fishes. Coral Graphics; iv + 298 pp.
- NARDO, G. D. 1824a. Risposta alla lettera del Sig. Naccari contenente la descrizione di alcune species di Pesci. *Giorn. Sci. Lett. Prov. Venete* 6: 253-256.
- NARDO, G. D. 1824b. Fine delle osservazioni ed aggiunte all'Adriatica Ittiologia pubblicata dal sig. Cav. Fortunato Luigi Naccari presentate dal sig. Domenico Nardo al sig. Giuseppe Carnevali di Udine. *Giorn. Fis. Chim. Storia Nat. Med. Arti Pavia* 7: 249-263.
- NARDO, G. D. 1827. *Prodromus observationum et disquisitionum ichthyologiae Adriaticae*. *Giorn. Fis. Chim. Storia Nat. Med. Arti Pavia* 10: 22-40.
- NARDO, G. D. 1847. Sinonimia moderna delle specie registrate nell'opera intitolata: descrizione de' crostacei, de' testacei e de' pesci che abitano le lagune e golfo veneto rappresentati in figure, a chiaro scuro ed a colori, dall'Abate Stefano Chierighini Ven. Clodiense, applicata per commissione governativa dal Dr. Gio. Domenico Nardo. Parte terza. Indice dei pesci della laguna e golfo veneto, col. 109-128. I.R. Priv. Stabilimento Antonelli, Venezia.
- NARDO, G. D. 1860. Prospetti sistematici degli animali delle provincie venete e del mare Adriatico e distinzione delle specie in gruppi relativi alla loro geografia fisica ed all'interesse economico statico che presentano. Classes V. Pisces. Estratto dal Vol. IV Serie III, Atti R. Istituto veneto di Scienze. pp. 785-910.
- NELSON, J. S. 1994. Fishes of the world. 3rd edition. John Wiley & Sons, New York; 600 pp.
- NGUYEN, T. T. 1974. Osteological studies on the labrid fishes (family Labridae) of Japan. Morphology, taxonomy and phylogeny. Ocean Research Institute, University of Tokio, Doctoral Dissertation.
- NICHOLS, J. T. 1920. A contribution to the ichthyology of Bermuda. *Proc. Soc. Biol. Wash.* 33: 59-64.
- NICHOLS, J. T. 1923. A new wrasse and two new cichlid from Northeast Africa. *Am. Mus. Novit.* No. 65: 1-4.
- NICHOLS, J. T. 1941. On new and other Labroid fishes from Bali. *Am. Mus. Novit.* No. 1154: 1-8.
- NILSSON, S. 1832. *Prodromus Ichthyologiae Scandinavicae*. Lundae; iv + 124 pp.
- NINNI, E. 1912. Catalogo dei Pesci del Mare Adriatico. Carlo Bertotti, Venezia; 271 pp.



- NORDMANN, A. von. 1840. Observations sur la faune pontique. In: A. de Demidoff, Voyage dans la Russie méridionale et la Crimée par la Hongrie, la Valachie et la Moldavie, exécuté en 1837 sous la direction de M. Anatole de Demidoff. Paris, Vol. 3: 355-635, 32 pls.
- OGILBY, J. D. 1888. On a small zoological collection from Norfolk Id. Fishes. *Proc. Linn. Soc. N. S. W.* 2: 990-993.
- OGILBY, J. D. 1889. The reptiles and fishes of Lord Howe Id. *Austr. Mem. Mus.* 2: 51-74.
- OGILBY, J. D. 1893. Edible fishes and crustaceans of New South Wales. Charles Potter, Sydney ii + 212 pp, 51 pls.
- OGILBY, J. D. 1910a. On new or insufficiently described fishes. *Proc. R. Soc. Queensl.* 23: 1-55.
- OGILBY, J. D. 1910b. On some new fishes from the Queensland coast. Endeavour Series, I. Was to have appeared as *Proc. R. Soc. Queensl.* 23: 85-139. (Withdrawn and privately published).
- OGILBY, J. D. 1911. Descriptions of new or insufficiently described fishes from Queensland waters. *Ann. Queensl. Mus.* 10: 36-58.
- OKEN, L. 1817. V. Kl. Fische. In: Isis oder Encyclopädische Zeitung. Vol. 8 (148): 1779-1782.
- OSBURN, R. C. AND J. T. NICHOLS. 1916. Shore fishes collected by the "Albatross" expedition in Lower California, with descriptions of new species. *N. Y. Bull. Am. Mus. Nat. Hist.* 35: 139-181.
- OSORIO, B. 1891. Estudos ichthyologicos ácerca de fauna dos dominios portugueses ne Africa. 3a nota. Peixes marítimos das ilhas de S. Thomé do Príncipe e ilheo de Rolas. *Jorn. Sci. Math. Phys. Nat. Lisboa* (Ser. 2) 2(6): 97-139.
- PALLAS, P. S. 1770. *Spicilegium zoologicum, quibus novae imprimis et obscurae animalium species iconibus, descriptionibus atque commentariis illustrantur.* Berolini, Gottl. August. Lange. *Spicilegium Zool.* 1 (fasc. 8): 1-56.
- PALLAS, P. S. 1814. *Zoographia rosso-asiatica, sistens omnium animalium in extenso Imperio Rossico et adjacentibus maribus observatorum recensionem, domicilia, mores et descriptiones anatomen atque icones plurimorum.* 3 vols [1811-1814]. Petropoli. *Zool. Rosso-Asiatica* v. 3; 428 pp.
- PARADICE, W. E. J. & G. P. WHITLEY. 1927. Northern territory fishes. *Mem. Queensl. Mus.* 9(1): 76-106.
- PARENTI, P. & J. E. RANDALL. 1998. First record of the labrid fish *Pteragogus flagellifer* (Valenciennes, 1839) from the Red Sea. *Fauna Arabia*, 17: 473-475.
- PARR, A. E. 1930. Scientific results of the third oceanographic expedition of the "Pawnee", 1927. Telesoteans shore and shallow water fishes from the Bahamas and Turk Id. *Bull. Bingham Oceanogr. Coll. Yale Univ.* 3 (4): 1-148.
- PAULIN, C., A. STEWART, C. ROBERTS & P. McMILLAN. 1989. New Zealand fish. A complete guide. *Nat. Mus. N. Zeal. Misc.* n. 19; xiv + 279 pp.
- PELLEGRIN, J. 1901. Poissons recueillis par M. Lion Diquet dans le golfe de Californie. *Bull. Mus. Hist. Nat., Paris* 7: 160-167.
- PEQUEÑO, G. 1989. Peces de Chile. Lista sistemática revisada y comentada. *Rev. Biol. Mar. Valparaíso* 24(2): 1-132.
- PEREZ CANTO, C. 1886. Estudio sobre algunos asculos de la costa de Chile. Imprenta y Librería El Pequeño Mercurio. Valparaíso, Chile: 1-12.
- PERRY, G. 1811. Ichthyology. In: Arcana or The Museum of Natural History: containing the most recent discovered objects... London. 2 unum. pp., 1 unum. pl.
- PERUGIA, A. 1866. Catalogo dei pesci dell'Adriatico. Trieste, Italy; 56 pp.
- PERUGIA, A. 1881. Elenco dei pesci dell'Adriatico. Milano, Hoepli; 66 pp, 7 pls.
- PETERS, W. C. H. 1855. Uebersicht der in Mossambique beobachteten Fische. *Arch. Naturgesch.* 21: 234-282.
- PETERS, W. C. H. 1876. Übersicht der von Hrn. Prof. Dr. K. Möbius in Mauritius und bei den Seychellen gesammelten Fische. *Monatsb. Akad. Wiss. Berlin*, 1875: 435-447.
- PETERS, W. C. H. 1877. Übersicht der während der von 1874 bis 1876 unter dem Commando der Hrn. Capitän z. S. Freiherrn von Schleinitz ausgeführten Reise S. M. S. "Gazelle" gesammelten und von der Kaiserlichen Admiralität der Königlichen Akademie der Wissenschaften übersandten Fische. *Montasber. Akad. Wiss. Berlin*, 1876: 831-854.
- PHILIPPI, R. A. 1887. Sobre los tiburones y algunos otros peces de Chile. *An. Univ. Santiago Chile* Sec. 1, 71: 1-42.
- PIETSCH, T. W. 1995. Fishes, Crayfishes, and Crabs. Louis Renard's Natural History of the Rarest Curiosities of the Seas of the Indies. John Hopkins Univ. Press, Baltimore 2 Vols..
- PHILLIPS, W. J. 1927. Bibliography of New Zealand fishes. *N. Zeal. Marine Dept. Fish. Bull.* 1: 1-68.
- PLAYFAIR, R. L. & A. GÜNTHER. 1867. The fishes of Zanzibar, with a list of the fishes of the whole east coast of Africa. London, John van Voorts; xix + 153 pp., 21 pls.
- PLAYFAIR, R. L. 1868. The fishes of Seychelles. Proceedings of the Scientific Meetings of the Zoological Society of London, pp. 846-872.
- POEY, F. 1860. Poissons de Cuba, espèces nouvelle. In: Memorias sobre la historia natural de la Isla de Cuba, acompañadas de sumarios Latinos y extractos en Francés, (1858-61) La Habana. 2(2): 97-336.
- POEY, F. 1861. Conspectus piscium cubensium. In: Memorias sobre la historia natural de la Isla de Cuba, acompañadas de sumarios Latinos y extractos en Francés. La Habana. 2(3): 337-442.
- POEY, F. 1865. Peces nuevos de la Isla de Cuba. *Repertorio Fisico-Natural de la Isla de Cuba* 1: 181-192.
- POEY, F. 1867. Peces Cubanos especies nuevas. *Repertorio Fisico-Natural de la Isla de Cuba* 2: 229-245.
- POEY, F. 1868. Synopsis piscium Cubensium. Catalogo Razonado de los peces de la isla de Cuba. *Repertorio Fisico-Natural de la Isla de Cuba* 2: 279-484.
- POEY, F. 1875. *Enumeratio piscium Cubensium.* *An. Soc. Esp. Hist. Nat. Madrid* 4: 75-161.
- POEY, F. 1876. *Enumeratio piscium Cubensium.* (Parts 2 and 3) *An. Soc. Esp. Hist. Nat. Madrid* 5: 131-216.
- POLLEN, F. P. L. & D. C. VAN DAM. 1874. Recherche sur la faune de Madagascar, d'après les decouvertes del F. P. L. Pollen et D. C. Van Dam. 4: 1-79.
- PRAS, A. 1961. Un crénilabre de nos côtes, peu commun. *Bull. Soc. Sc. Nat. Archéol. Toulon* Var 137: 9-10.
- QUIGNARD, J. P. 1965. Redescription de *Lappanella fasciata* (Cocco, 1833) = *Ctenolabrus iris* Valenciennes, 1839 et diagnose du genre *Lappanella* Jordan (Téléostéens, Perciformes, Labridae) *Bull. Mus. natn. Hist. nat. Paris* 36(5): 578-583.
- QUIGNARD, J. P. 1966. Recherches sur les Labridés (Poissons, Téléostéens, Perciformes) des côtes européennes. Systématique et biologie. *Naturalia Monspel.* (Ser. Zool.) 5: 7-248.
- QUOY, J. R. C. & J. P. GAIMARD. 1824. Description des Poissons. Chapter IX; pp. 1-328. In: L. de Freycinet (ed.) Voyage autour du Monde...exécuté sur les corvettes de L.M. "L'Uranie" et "La Physicienne", pendant les années 1817, 1818, 1819 et 1820. Paris.
- QUOY, J. R. C. & J. P. GAIMARD. 1834. Zoologie. Poissons. In: Voyage des decouverte de "l'Astrolabe", exécuté par ordre du Roi, pendant les années 1826-29, sous le commandement de M. J. Dumont d'Urville. Paris. Vol. 3: 645-720.
- RAFINESQUE, C. S. 1810a. Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia, con varie osservazioni sopra i medesimi. Palermo; 105 pp., 20 pls.
- RAFINESQUE, C. S. 1810b. Indice d'ittologia siciliana ossia catalogo metodico dei nomi latini, italiani, e siciliani dei pesci che si rinvencono in Sicilia disposti secondo un metodo naturale e seguito da un'appendice che contiene la



- descrizione di alcuni nuovi pesci siciliani. Messina; 80 pp., 2 pls.
- RAFINESQUE, C. S. 1814. Précis de découvertes et travaux somiologiques de Mr. C. S. Rafinesque-Schmaltz entre 1800 et 1814; ou choix raisonné de ses principales découvertes en zoologie et en botanique, pour servir d'introduction à ses ouvrages futures. Palermo; 55 pp.
- RAFINESQUE, C. S. 1815 Analyse de la nature, ou tableau de l'univers et des corps organisés. Palermo; 224 pp.
- RAMSAY, E. P. 1881. Description of a new labroid fish of the genus *Novacula* from Port Jackson. *Proc. Linn. Soc. N. S. W.* (Ser.1) 6: 198-199.
- RAMSAY, E. P. 1883. Description of a new species of *Coris* from Lord Howe Id and New South Wales. *Proc. Linn. Soc. N. S. W.* (Ser.1) 7: 301-302.
- RAMSAY, E. P. & J. D. OGILBY. 1886. Description of a new *Coris*. *Proc. Linn. Soc. N. S. W.* (Ser. 2) 1: 851-852.
- RAMSAY, E. P. & J. D. OGILBY. 1887a. Description of a new *Coris* from New Hebr Islands. *Proc. Linn. Soc. N. S. W.* (Ser. 2) 1: 131-132.
- RAMSAY, E. P. & J. D. OGILBY 1887b. Descriptions of new Australian fishes. *Proc. Linn. Soc. N. S. W.* (Ser. 2) 2: 241-243.
- RAMSAY, E. P. & J. D. OGILBY 1887c. Descriptions of new Australian fishes. *Proc. Linn. Soc. N. S. W.* (Ser. 2) 2: 561-564.
- RAMSAY, E. P. & J. D. OGILBY 1888. On a new genus and species of labroid fish from Port Jackson. *Proc. Linn. Soc. N. S. W.* (Ser. 2) 2 [1887]: 631-634.
- RANDALL, J.E. 1955. *Stethojulis renardi*, the adult male of the labrid fish *Stethojulis strigiventer*. *Copeia* 1955(3): 237.
- RANDALL, J.E. 1958a. Two new species of *Anampses* from the Hawaiian Islands, with notes on other labrid fishes of this genus. *J. Wash. Acad. Sci.* 48. labrid fish genus *Labroides*, with description of two new species and notes on ecology. *Pac. Sci.* 12(4): 327-347.
- RANDALL, J.E. 1965a. A review of the razorfish genus *Hemipteronotus* (Labridae) of the Atlantic Ocean. *Copeia* 1965(4): 487-501.
- RANDALL, J.E. 1965b. A redescription of *Sparisoma atomarium* (Poey), a valid West Indian parrotfish. *Notulae Nat.* no. 378: 1-9.
- RANDALL, J.E. 1972. A review of the labrid fish genus *Anampses*. *Micronesica* 8(1-2): 151-190.
- RANDALL, J.E. 1973. Tahitian fish names and a preliminary checklist of the fishes of the Society Islands. *Occas. Pap. Bernice P. Bishop Mus.* 24: 167-214.
- RANDALL, J.E. 1976. Ichthyological expedition to Easter Id. *Nat. Geogr. Soc. Res. Rep.* 1968: 333-347.
- RANDALL, J.E. 1978a. *Pseudojulis* Bleeker, a probable invalid genus of labrid fishes (Perciformes: Labridae) *Matsya* 4: 1-4.
- RANDALL, J.E. 1978b. A review of the labrid fish genus *Macropharyngodon*, with descriptions of five new species. *Bull. Mar. Sci.* 28(4): 742-770.
- RANDALL, J.E. 1981a. Revision of the labrid fish genus *Labropsis* with descriptions of five new species. *Micronesica* 17(1-2): 125-155.
- RANDALL, J.E. 1981b. Two new species and six new records of labrid fishes from the Red Sea. *Senckenb. Marit.* 13(1/3): 79-109.
- RANDALL, J.E. 1981c. Two new labrid fishes of the genus *Halichoeres*, with notes on the other species of the genus. *Pac. Sci.* 34(4)[1980]: 415-432.
- RANDALL, J.E. 1982. A review of the labrid fish genus *Hologymnosus*. *Rev. fr. Aquariol.* 9(1): 13-20.
- RANDALL, J.E. 1983a. Revision of the Indo-Pacific labrid fish genus *Wetmorella*. *Copeia* 1983(4): 875-883.
- RANDALL, J.E. 1983b. Red Sea Reef Fishes. Immel, Publishing, London; 192 pp.
- RANDALL, J.E. 1985. Guide to Hawaiian Reef Fishes. Harrowood Books, Philadelphia; 79 pp.
- RANDALL, J.E. 1986a. Family No. 220: Labridae, pp. 683-706. In: M.M. Smith & P.C. Heemstra (eds), *Smiths' Sea Fishes*. Springer-Verlag, Berlin.
- RANDALL, J.E. 1986b. Family No. 221: Scaridae, pp. 706-714. In: M.M. Smith & P.C. Heemstra (eds), *Smiths' Sea Fishes*. Springer-Verlag, Berlin.
- RANDALL, J.E. 1988. Five new wrasses of the genera *Cirrhilabrus* and *Paracheilinus* (Perciformes: Labridae) from the Marshall Islands. *Micronesica* 21 (2): 199-226.
- RANDALL, J.E. 1990. Scaridae, pp. 883-887. In: J. C. Quero, J. C. Hureau, C. Karrer, A. Post & L. Saldanha (eds), *Checklist of the fishes of the eastern tropical Atlantic*. UNESCO, Paris, vol. 2.
- RANDALL, J.E. 1992a. A review of the labrid fishes of the genus *Cirrhilabrus* from Japan, Taiwan and the Mariana Islands, with descriptions of two new species. *Micronesica* 25 (1): 99-121.
- RANDALL, J.E. 1992b. Diver's Guide to Fishes of Maldives. IMMEL publishing; 103 pp.
- RANDALL, J.E. 1995a. A review of the wrasses of the genus *Cirrhilabrus* (Perciformes: Labridae) from the Western Indian Ocean. *Rev. fr. Aquariol.* 22(1-2): 19-25.
- RANDALL, J.E. 1995b. On the validity of the eastern Pacific labrid fish *Thalassoma grammaticum* Gilbert and *T. virens*. *Bull. Mar. Sci.* 56(2): 670-675.
- RANDALL, J.E. 1996. Second revision of the labrid fish genus *Leptojulis*, with description of two new species. *Indo-Pac. Fishes* 24: 1-20.
- RANDALL, J.E. 1997. *Scarus atropectoralis* Schultz, a junior synonym of *S. xanthopleura* Bleeker. *Rev. fr. Aquariol.* 24(1-2): 49-52.
- RANDALL, J.E. 1999a. Revision of the Indo-Pacific labrid fishes of the genus *Pseudocheilinus*, with descriptions of three new species. *Indo-Pac. Fishes* 28: 1-34.
- RANDALL, J.E. 1999b. Revision of the Indo-Pacific labrid fishes of the genus *Coris*, with descriptions of five new species. *Indo-Pac. Fishes* 29: 1-74.
- RANDALL, J.E. 1999c. *Paracheilinus attenuatus* a new labrid fish from the western Indian Ocean, with a redescription of *P. piscilineatus*. *J. South Asian Nat. Hist.* 4(1): 29-38.
- RANDALL, J.E. 1999d. *Halichoeres bleekeri* (Steindachner & Döderlein, 1887), a valid Japanese species of labrid fish, distinct from *H. tenuispinis* (Günther) from China. *Ichthyol. Res.* 46(3): 225-231.
- RANDALL, J.E. 2000. Revision of the Indo-Pacific labrid fishes of the genus *Stethojulis*, with descriptions of two new species. *Indo-Pac. Fishes* 31: 1-42.
- RANDALL, J.E. & T. E. ADAMSON. 1982. A review of the monotypic Indo-Malayan labrid fish genus *Xenojulis*. *Pac. Sci.* 36(1): 119-126.
- RANDALL, J.E., G. R. ALLEN & R. C. STEENE. 1990. Fishes of the Great Barrier Reef and Coral Sea. Crawford House Press, Bathurst, Australia; 504 pp.
- RANDALL, J.E., G. R. ALLEN & R. C. STEENE. 1997. Fishes of the Great Barrier Reef and Coral Sea. Revised and expanded edition. Crawford House Press, Bathurst; 557 pp.
- RANDALL, J.E. & R. C. ANDERSON. 1993. Annotated checklist of the epipelagic and shore fishes of the Maldiv Islands. *Ichthyol. Bull. J. L. B. Inst. Ichthyol.* 59: 1-47.
- RANDALL, J.E. & R.C. ANDERSON. 1997. *Chlorurus rhakoura*, a new species of parrotfish (Perciformes: Labroidae: Scaridae) from Sri Lanka. *J. South Asian nat. Hist.* 2(2): 155-164.
- RANDALL, J.E. & M. ARAGA. 1978. The Japanese labrid fish *Coris musume*, a junior synonym of the Australian *Coris picta*. *Publ. Seto Mar. Biol. Lab.* 24 (4/6): 427-431.
- RANDALL, J.E. & E. BÖHLKE. 1965. Review of the Atlantic labrid fishes of the genus *Halichoeres*. *Proc. Nat. Acad. Sci. Phila.* 117: 235-259.



- RANDALL, J.E. & R. W. BRUCE. 1983. The parrotfishes of the subfamily Scarinae of the western Indian Ocean with descriptions of three new species. *Ichthyol. Bull. J. L. B. Smith Inst. Ichthyol.* 47: 1-39.
- RANDALL, J.E. & B. A. CARLSON. 1997. *Ammolarus dicrus*, a new genus and species of labrid fish from the Hawaiian Islands. *Pac. Sci.* 51(1): 29-25.
- RANDALL, J.E. & K. E. CARPENTER. 1980. Three new labrid fishes of the genus *Cirrhilabrus* from the Philippines. *Rev. fr. Aquariol.* 7(1): 17-26.
- RANDALL, J.E. & J. H. CHOAT. 1980. Two new parrotfishes of the genus *Scarus* from the Central and South Pacific, with further examples of sexual dichromatism. *Zool. J. Linn. Soc.* 70: 383-419.
- RANDALL, J.E. & B. CONDÉ. 1989. *Frontilabrus caeruleus*, nouveaux genre et espèce de Labridé des Maldives. *Rev. fr. Aquariol.* 15(3): 89-92.
- RANDALL, J.E. & A.S. CORNISH. 2000. *Xyrichtys trivittatus*, a new species of razorfish (Perciformes: Labridae) from Hong Kong and Taiwan. *Zool. Stud.* 39(1): 118-22.
- RANDALL, J.E. & M. DOR. 1980. Description of a new genus and species of labrid fish from the Red Sea. *Isr. J. Zool.* 29(4): 153-162.
- RANDALL, J.E. & J. L. EARLE. 1993. *Scarus obishime*, a new parrotfish (Perciformes: Scaridae) from the Ogasawara Islands. *Jap. J. Ichthyol.* 39(4): 287-293.
- RANDALL, J.E. & J.L. EARLE. 1994. Three new wrasses of the genus *Halichoeres* (Perciformes: Labridae) from Oman. *Fauna Saudi Arabia* 14: 287-301.
- RANDALL, J.E. & A. EDWARDS. 1984. A new labrid fish of the genus *Thalassoma* from the Pitcairn Group, with a review of related Indo-Pacific species. *J. Aquar. Aquat. Sci.* 4(2): 13-32.
- RANDALL, J.E. & A. R. EMERY. 1983. A new labrid fish of the genus *Cirrhilabrus* from the Chagos Archipelago, Indian Ocean. *J. Aquar. Aquat. Sci.* 3(2): 21-24.
- RANDALL, J.E. & C. J. FERRARIS. 1981. A revision of the Indo-Pacific labrid fish genus *Leptojulis*, with descriptions of two new species. *Rev. fr. Aquariol.* 8(3): 89-96.
- RANDALL, J.E. & P. FOURMANOIR. 1998. *Terelabrus rubrovittatus*, a new genus and species of labrid fish from New Caledonia and New Guinea. *Bull. Mar. Sci.* 62(1): 247-252.
- RANDALL, J.E. & M. L. HARMELIN-VIVIEN. 1977. A review of the labrid fishes of the genus *Paracheilinus*, with descriptions of two new species from western Indian Ocean. *Bull. Mus. natn. His. nat. Paris, Ser. 3<sup>e</sup>*, 436: 329-342.
- RANDALL, J.E. & J. P. HOOVER. 1995. *Scarus zufar*, a new species of parrotfish from Southern Oman, with comments on endemism of the area. *Copeia* 1995(3): 683-688.
- RANDALL, J.E., H. IDA, K. KATO, R. L. PYLE & J. L. EARLE. 1997. Annotated checklist of the inshore fishes of the Ogasawara Islands. *Nat. Sci. Mus. Monogr.* 11: 1-74.
- RANDALL, J.E. & J. C. KAY. 1974. *Stethojulis axillaris*, a junior synonym of the Hawaiian labrid fish *Stethojulis balteata*, with a key to the species of the genus. *Pac. Sci.* 28(2): 101-107.
- RANDALL, J.E. & A. KOTTHAUS. 1977. *Suezichthys tripunctatus*, a new deep-dwelling Indo-Pacific labrid fish. *Meteor. Forsch.-Ergebn.* D (24): 33-36.
- RANDALL, J.E. & R.H. KUITER. 1982. Three new species of the genus *Coris* from western Pacific. *Pac. Sci.* 36(2): 159-173.
- RANDALL, J.E. & R.H. KUITER. 1989. *Cirrhilabrus punctatus*, a new species of labrid fish from the southwestern Pacific. *Rev. fr. Aquariol.* 16(2): 43-50.
- RANDALL, J.E. & A. KUNZMANN. 1998. *Cirrhilabrus adornatus*, a new species of labrid fish from Sumatra. *Rev. fr. Aquariol.* 25(1-2): 41-44.
- RANDALL, J.E. & R. LUBBOCK. 1981. Labrid fishes of the genus *Paracheilinus*, with descriptions of three new species from the Philippines. *Jap. J. Ichthyol.* 28(1): 19-30.
- RANDALL, J.E. & R. LUBBOCK. 1982. Three new labrid fishes of the genus *Cirrhilabrus* from the southwestern Pacific. *Occas. Pap. Bernice P. Bishop Mus.* 25(2): 1-12.
- RANDALL, J.E. & H. MASUDA. 1991. Two new labrid fishes of the genus *Cirrhilabrus* from Japan. *Rev. fr. Aquariol.* 18(2): 53-60.
- RANDALL, J.E. & J.K.L. MEE. 1994. A new labrid fish of the genus *Thalassoma* from Oman. *Fauna Saudi Arabia* 14: 302-308.
- RANDALL, J.E. & R.F. MYERS. 2000. *Scarus fuscocaudalis*, a new species of parrotfish (Perciformes: Labroidae: Scaridae) from the western Pacific. *Micronesica* 32(2): 221-228.
- RANDALL, J.E. & G. NELSON. 1979. *Scarus japanensis*, *S. quoyi* and *S. iserti* - valid names for parrotfishes presently known as *S. capistratioides*, *S. blochii* and *S. croicensis*. *Copeia* 1979(2): 206-212.
- RANDALL, J.E. & R. F. G. ORMOND. 1978. On the Red Sea parrotfishes of Forsskal, *Scarus psittacus* and *S. ferrugineus*. *Zool. J. Linn. Soc.* 63, 239-248.
- RANDALL, J.E. & P. PARENTI. 1999. Rejection of nine old labrid fish names in order to conserve well-established taxa. *Rev. fr. Aquariol.* 26(1-2): 29-32.
- RANDALL, J.E. & R. M. PYLE. 1989. *Cirrhilabrus scottorum*, a new labrid fish from the South Pacific Ocean. *Rev. fr. Aquariol.* 5(4): 113-118.
- RANDALL, J.E. & H. A. RANDALL. 1981. A revision of the labrid fish genus *Pseudojuloides*, with description of five new species. *Pac. Sci.* 35(1): 51-74.
- RANDALL, J.E. & H. A. RANDALL. 1987. Annotated checklist of the fishes of Enewetak Atoll and other Marshall Islands, pp. 289-324. In: D.M. Devaney, E. S. Reese, B. L. Burch & P. Helfrich (eds), *The Natural History of Enewetak Atoll. Vol. II, Biogeography and Systematics*. U. S. Dept. of Energy, Oak Ridge, Tennessee.
- RANDALL, J.E. & S.-C. SHEN. 1978. A review of the labrid fishes of the genus *Cirrhilabrus* from Taiwan, with description of a new species. *Bull. Inst. Zool. Acad. Sin.* 17(1): 13-24.
- RANDALL, J.E. & M. M. SMITH. 1982. A review of the labrid fish genus *Halichoeres* of the western Indian Ocean, with descriptions of six new species. *Ichthyol. Bull. J. L. B. Smith Inst. Ichthyol.* 45: 1-26.
- RANDALL, J.E., C. L. SMITH & M. N. FEINBERG. 1990. Report on fish collections from Rapa, French Polynesia. *Amer. Mus. Nov.* 2966: 1-42.
- RANDALL, J.E. & V. G. SPRINGER. 1973. The monotypic Indo-Pacific labrid fish genera *Labrichthys* and *Diproctacanthus* with description of a new related genus, *Larabicus*. *Proc. Biol. Soc. Wash.* 86: 279-297.
- RANDALL, J.E. & V. G. SPRINGER. 1975. *Labroides pectoralis*, a new species of labrid fish from the tropical western Pacific. *UO* 25: 4-11.
- RANDALL, J.E. & T. YAMAKAWA. 1988. A new species of the labrid fish genus *Hologymnosus* from the western Pacific, with notes of *H. longipes*. *Rev. fr. Aquariol.* 15(1): 25-32.
- RANZANI, C. 1842. *De nonnullis novis speciebus piscium. Opusculum tertium. Novi Comment. Acad. Sci. Inst. Bonon.* 5: 307-338.
- RATHKE, H. 1837. Beitrag zur Fauna der Krym. Fische. *Mém. Sav. Etrang. St Pétersb.* 3: 309-354.
- REEVES, C. D. 1927. A catalogue of the fishes of northeastern China and Korea. *J. Pan-Pac. Res. Inst. Honolulu* 2(3): 1-16.
- REGAN, C.T. 1905. Description de six poissons nouveaux faisant partie de la collection du Musée d'Histoire Naturelle de Genève. *Rev. Suisse Zool.* 13: 389-393.
- REGAN, C.T. 1913. A collection of fishes made by Professor Francisco Fuentes at Easter Id. *Proc. Zool. Soc. London* 1913: 368-374.



- RENDHAL, H. 1921. The fishes of Easter Id, pp. 59-68. In: C. Skottsberg (ed.) *The natural history of Juan Fernandez and Easter Id* Vol. 3, Uppsala.
- RETZIUS, A. J. 1800. *Fuanae Sueciae a Carolo a Linné...inchoatae pars prima [sistens mammalia, aves, amphibia et pisces] quam recognovit, emendavit et auxit* A. J. Retzius...Lipsiae; x + 362 pp., 1 pl. (Pisces pp. 297-362).
- REUVENS, C. L. 1895. A new *Novacula*-specimen from the Balabalongan or Little Paternoster Isles. *Notes Leyden Mus.* 16: 131-132.
- RICHARDS, W. J. 1990. List of the fishes of the Western Central Atlantic and the status of early life stage information. *NOAA Tech. Memorandum NMSF SEFC-267*; 88 pp.
- RICHARDSON, J. 1839. Account of a collection of fishes from Port Arthur, Van Diemens Land. *Proc. Zool. Soc. London*. 7: 95-100.
- RICHARDSON, J. 1840. On some new species of fishes from Australia. *Proc. Zool. Soc. London* 8: 25-30.
- RICHARDSON, J. 1843a. *Iconae Piscium*, or Plates of Rare Fishes; Part I, Richard and John Taylor, London; 8 pp., 5 pls.
- RICHARDSON, J. 1843b. Contributions to the ichthyology of Australia. *Ann. Mag. Nat. Hist.* 11: 352-359.
- RICHARDSON, J. 1843c. Contributions to the ichthyology of Australia. *Ann. Mag. Nat. Hist.* 11: 422-428.
- RICHARDSON, J. 1844. Ichthyology (part 2), pp. 51-86. In: R. B. Hinds (ed.) *The zoology of the voyage of the H. M. S. Sulphur, under the command of Captain Sir Edward Belcher, ..., during the years 1836-42*. London. Vol. 1.
- RICHARDSON, J. 1845. Ichthyology (part 3), pp. 87-150. In: R. B. Hinds (ed.) *The zoology of the voyage of the H. M. S. Sulphur, under the command of Captain Sir Edward Belcher, ..., during the years 1836-42*. London. Vol. 1.
- RICHARDSON, J. 1846a. Ichthyology of the voyage of H.M.S. Erebus and Terror, pp. 53-74. In: J. Richardson & J.E. Gray (eds.) *The zoology of the voyage of H. M. S. Erebus and Terror, under the command of Captain Sir J. C. Ross...during 1839-43*. London, Vol. 2.
- RICHARDSON, J. 1846b. Reports on the ichthyology of the seas of China and Japan. *Rep. Brit. Ass. Adv. Sc.* [1845]: 187-320.
- RICHARDSON, J. 1848. Ichthyology of the voyage of H.M.S. Erebus and Terror; pp. viii + 75-139. In: J. Richardson & J.E. Gray (eds.) *The zoology of the voyage of H. M. S. Erebus and Terror, under the command of Captain Sir J.C. Ross, during 1839-43*. London, Vol. 2.
- RICHARDSON, J. 1850. Notices of Australian fish. *Proc. Zool. Soc. London* 1850: 58-77.
- RISSO, A. 1810. *Ichthyologie de Nice, ou histoire naturelle des poissons du département des Alpes Maritimes*. Paris; xxxvi + 388 pp., 11 pls.
- RISSO, A. 1827. *Histoire naturelle des principales productions de l'Europe meridionale et particulièrement de celles des environs de Nice et des Alpes Maritimes*. F. G. Levrault, Paris et Strasbourg, vol. 3; xvi + 480 pp., 16 pls. [dated 1826 in previous literature; see Eschmeyer et al., 1997].
- RIVATON, J., P. FOURMANOIR, P. BOURRET & M. KULBICKI. 1989. Catalogue des Poissons de Nouvelle-Calédonie. Rapport provisoire. ORSTOM, Centre de Noumea, Nouvelle Calédonie; 170 pp.
- RÖSE, A. F. 1793. *Petri Artdi Angermannia--Sueci synonymia nominum piscium fere omnium;... Ichthyologiae pars IV*. Greifswald, Edition II. Petri Artdi: 1-140.
- ROUX-ESTÈVE, R. & P. FOURMANOIR. 1955. Résultats scientifiques des campagnes de la "Calypso". VII. Poissons capturés par la mission de la "Calypso" en Mer Rouge. *Ann. Inst. Océanogr. Monaco*. 30: 195-203.
- RÜPPELL, W. 1828. Atlas zu der Reise im nördlichen Afrika. Fische des Rothen Meeres. Frankfurt-am-Main. Part 1: 1-26.
- RÜPPELL, W. 1829. Atlas zu der Reise im nördlichen Afrika. Fische des Rothen Meeres. Frankfurt-am-Main. Part 2: 27-94.
- RÜPPELL, W. 1835. Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres. Frankfurt-am-Main, 1-28.
- RÜPPELL, W. 1852. Verzeichniss der in dem Museum den Senckenbergischen naturforschenden Gesellschaft aufgestellten Sammlungen. Vierte Abtheilung. Fische und deren Skelette. Frankfurt-am-Main, 1-40.
- RUSSEL, P. 1803. Descriptions and figures of two hundred fishes collected at Vizagapatam on the coast of Coromandel. London, 2 vols.
- RUSSELL, B. C. 1980. Revision of the fish genus *Pseudolabrus* and allied genera in the Labridae, with a phylogenetic analysis of forms. Ph. D. Dissertation, Macquarie University, Sydney, Australia; 247 pp.
- RUSSELL, B. C. 1983a. *Nelabrichthys*, a new genus of labrid fish (Perciformes: Labridae) from the southern Indian and Atlantic Oceans. *J.L.B. Smith Inst. Ichthyol. Spec. Pub.* 27: 1-7.
- RUSSELL, B. C. 1983b. Annotated checklist of the Coral Reef fishes in the Capricorn-Bunker Group, GreatBarrier Reef Australia. Great Barrier Reef Marine Park Authority, Hartfields Printers, Mackay, Queensland, Australia; 184 pp.
- RUSSELL, B. C. 1985. Revision of the Indo-Pacific labrid fish genus *Suezichthys*, with descriptions of four new species. *Indo-Pac. Fishes* 2: 1-21.
- RUSSELL, B. C. 1986. A new species of *Suezichthys* (Pisces: Labridae) from the Great Australian Bight. *Trans. R. Soc. S. Aust.* 110(2): 59-61.
- RUSSELL, B.C. 1988. Revision of the labrid fish genus *Pseudolabrus* and allied genera. *Rec. Aust. Mus. Suppl.* 9: 1-71.
- RUSSELL, B. C. 1996. Type specimens of New Zealand fishes described by Captain F. W. Hutton, F. R. S. (1836-1905) *J. R. Soc. N. Zeal.* 26(2): 215-236.
- RUSSELL, B. C. & J.E. RANDALL. 1981. The labrid fish genus *Pseudolabrus* from Islands of the Southeastern Pacific, with description of a new species from Rapa. *Pac. Sci.* 34(4): 433-440.
- RUSSELL, P. 1803. Descriptions and figures of two hundred fishes; collected at Vizagapatam on the coast of Coromandel. London: vol. 1: vii + 1 + 78 + 4 pp., figs. 1-100; vol. 2: 85 + 4 p., figs. 101-208.
- SAKAMOTO, K. 1930. Two new species of fishes from the Japan Sea. *J. Imp. Fish. Inst. Tokyo* 26: 15-19.
- SANDAGER, F. S. 1888. List of fishes found around Mokohinau Islands; their spawning time and observations regarding some of the species. *Trans. Proc. N. Zeal. Inst.* 20 [1887]: 127-133.
- SAUVAGE, H. E. 1875. Sur la faune ichthyologique de l'Île Saint-Paul. *Compt. Rend. Acad. Sci.* 81: 987-989.
- SAUVAGE, H. E. 1880. Description de quelques poissons de la collection du Muséum d'Histoire Naturelle. *Bull. Soc. Philomath. Paris* (Ser. 7) 4: 220-228.
- SAUVAGE, H. E. 1891. Histoire Naturelle des Poissons. In: A. Grandidier *Histoire physique, naturelle et politique de Madagascar*. L'Imprimerie Nationale, Paris. Vol. 16; 543 pp., 50 pls.
- SAVILLE-KENT, W. 1888. Notes on the identity of certain Tasmanian fishes. *Pap. Proc. R. Soc. Tasmania* 1887: 47-48.
- SAVILLE-KENT, W. 1893. The Great Barrier Reef of Australia; its products and potentialities. London; xx + 387 pp., 66 pls.
- SAVILLE-KENT, W. 1897. The Naturalist in Australia. Chapman and Hall, London; 302 pp.
- SCHMIDT, P. J. 1931. Fishes of the Riu-Kiu Islands. *Trans. Pacific. Commun. Acad. Sci. U.S.S.R.* 1: 19-156.
- SCHOMBURGK, R. H. 1848. The history of Barbados; comprising a geographical description of the Island and an account of its geology and natural productions. London. Hist. Barbados: i-xx + 1-722.



- SCHÖPF, J. D. 1788. Beschreibung einiger Nordamerikanischen Fische, vorzüglich aus den neu-yorkischen Gewässern. *Sitzungsber. Ges. Naturf. Freunde Berlin*, v. 8: 138-194.
- SCHULTZ, L. P. 1943. Fishes of the Phoenix and Samoan Islands collected in 1939 during the expedition of the U. S. S. "Bushnell". *Bull. U. S. Natl. Mus.* 180: i-x + 1-316.
- SCHULTZ, L. P. 1958. Review of the parrotfishes Family Scaridae. *Bull. U. S. Natl. Mus.* 214: i-v + 1-143.
- SCHULTZ, L. P. 1968. A new subspecies of parrotfish, *Nicholsina usta collettei*, from the eastern Atlantic Ocean. *Proc. U.S. Natl. Mus.* 124: 1-5.
- SCHULTZ, L. P. 1969. The taxonomic status of the controversial genera and species of parrotfishes with a descriptive list (Family Scaridae) *Smithson. Contr. Zool.* 17: 1-49.
- SCHULTZ, L. P., W. M. CHAPMAN, E. A. LACHNER & P. L. WOODS. 1960. Fishes of Marshall and Mariana Islands. *Bull. U. S. Natl. Mus.* 202 (vol. 2): i-ix + 1-438.
- SCHULTZ, L. P. & N.B. MARSHALL. 1954. A review of the labrid fish genus *Wetmorella* with descriptions of new forms from the tropical Indo-Pacific. *Proc. U. S. Natl. Mus.* 103: 439-447.
- SCOPOLI, G.A. 1777. *Introductio ad historiam naturalem, sistens genera lapidum, plantarum et animalium hactenus detecta, characteribus essentialibus donata, in tribus divisa, subinde ad leges naturae*. Prague; ix + 506 pp.
- SCOTT, E. O. G. 1942. Observations on some Tasmanian fishes. Part V. *Pap. Proc. R. Soc. Tasmania* 1941: 45-54.
- SCOTT, T. D. 1959. Notes on western Australian fishes, no. 1. *Trans. R. Soc. S. Austr.* 82: 73-91.
- SCOTT, T. D., C. J. M. GLOVER & R. V. SOUTHCOTT. 1974. The marine and freshwater fishes of South Australia. Handbooks Committee, South Australian Government Printer, Adelaide; 392 pp.
- SEALE, A. 1901a. Report of a mission to Guam. Part 2, fishes. *Occas. Pap. Bernice P. Bishop Mus.* 1(3): 61-128.
- SEALE, A. 1901b. New Hawaiian fishes. *Occas. Pap. Bernice P. Bishop Mus.* 1(4): 1-15.
- SEALE, A. 1906. Fishes of the South Pacific. *Occas. Pap. Bernice P. Bishop Mus.* 4(1): 1-89.
- SEALE, A. 1910. New species of Philippine fishes. *Philipp. J. Sci.* 4(6): 491-543.
- SEALE, A. 1935. The Templeton Crocker Expedition to Western Polynesia and Melanesia Islands, 1933. No. 27. Fishes. *Proc. Calif. Acad. Sci.* 21: 337-378.
- SEALE, A. & B. A. BEAN. 1907. On a collection of fishes from the Philippine Islands, made by Maj. Edgar A. Mearns, Surgeon, U. S. Army, with descriptions of seven new species. *Proc. U. S. Natl. Mus.* 33: 229-248.
- SEBA, A. 1761. *Locupletissimi rerum naturalium thesauri accurata descriptio, et iconibus artificiosissimis expressio, per universam physicam historiam opus, cui ex toto terrarum orbe collegit, digessit, descripsit et dipingendum curavit*. Jansonius van Waesberge, Wettstein & Smith, Amsterdam. Vol. 3; 212 pp., 116 pls..
- SEVASTIANOFF, A. 1802. Description de l'*Acarauna longirostris*, nouveau genre de poissons, appartenant à l'ordre des thoraciques, et qui se trouve dans le Musée de notre Académie des Sciences. *Nova Acta Acad. Sci. Imp. Petropol.* 13: 357.
- SHAW, G. 1803. General zoology or systematic natural history. Pisces. G. Kearley, London, 1800-1826. Vol 4; 632 pp.
- SHAW, G. AND F. P. NODDER. 1789-1813. The Naturalist's Miscellany, or coloured figures of natural objects; drawn and described from nature. London v. 10: unnum. pp. Pls. 365-396 (dates of publication determined by C.D. Sherborn 1895 *Ann. Mag. Nat. Hist.* (Ser. 6) 15: 375-376).
- SENOU, H. & T. HIRATA. 2000. A new labrid fish, *Cirrhilabrus katoi*, from southern Japan. *Ichthyol. Res.* 47 (1): 89-93.
- SHEN, S.-C. 1993. Fishes of Taiwan. Department of Zoology, National Taiwan University, Taipei; xx + 960 pp. (in Chinese with English abstract).
- SHEN, S.-C. & H.-S. YEH. 1987. Study on the razorfishes genus *Xyrichtys* (Labridae) of Taiwan. *J. Taiwan Mus.* 40(2): 61-71.
- SHEPARD, J. W. & K. A. MEYER. 1978a. A new species of the labrid fish genus *Macropharyngodon* from southern Japan. *Jap. J. Ichthyol.* 25(3): 159-164.
- SHEPARD, J. W. & K. A. MEYER. 1978b. New records of labrid fishes from Japan. *UO* 29: 31-40.
- SMITH, J.L.B. 1947. New species and new records of fishes from South Africa. *Ann. Mag. Nat. Hist.* (Ser 11) 13: 793-821.
- SMITH, J.L.B. 1949. Interesting fishes of three genera new to South Africa. *Ann. Mag. Nat. Hist.* (Ser. 12) 2: 367-374.
- SMITH, J.L.B. 1953. The giant "Cushionhead Parrotfish" of Kenya, *Callyodon muricatus* (Valenciennes), and its growth stadia. *Ann. Mag. Nat. Hist.* (Ser. 12) 6: 620-622.
- SMITH, J.L.B. 1955. New species and new records of fishes from Mozambique. *Mem. Mus. Dr. Alvaro de Castro* 3: 1-27.
- SMITH, J.L.B. 1956a. The fishes of Aldabra. Part IV. *Ann. Mag. Nat. Hist.* (Ser 12) 8 [1955]: 928-937.
- SMITH, J.L.B. 1956b. The parrot fishes of the family Callyodontidae of the western Indian Ocean. *Ichthyol. Bull. J.L.B. Smith Inst. Ichthyol.* 1: 1-23.
- SMITH, J.L.B. 1957a. List of fishes of the family Labridae in the Western Indian Ocean with new records and five new species. *Ichthyol. Bull. J.L.B. Smith Inst. Ichthyol.* 7: 99-114.
- SMITH, J.L.B. 1957b. The labrid fishes of the subgenus *Julis* Cuvier, 1814 (in *Coris* Lacepède, 1802) from South Africa and East Africa. *Ichthyol. Bull. J.L.B. Smith Inst. Ichthyol.* 8: 117-120.
- SMITH, J.L.B. 1958. Rare fishes from South Africa. *S. Afr. J. Sci.* 54: 319-323.
- SMITH, J.L.B. 1959. The identity of *Scarus gibbus* Rüppell 1829 and of other parrotfishes of the family Callyodontidae from the Red Sea and the western Indian Ocean. *Ichthyol. Bull. J.L.B. Smith Inst. Ichthyol.* 16: 265-282.
- SMITH, J.L.B. 1968. A new labrid fish from deep water of Mozambique. *Copeia* 1968(2): 343-345.
- SMITH, J.L.B. & M. M. SMITH. 1963. Fishes of Seychelles. Department of Ichthyology, Rhodes University, Grahamstown; 215 pp.
- SMITH, R. & J. SWAIN. 1882. Notes on a collection of fishes from Johnston's Island, including descriptions of five new species. *Proc. U. S. Natl. Mus.* 5: 119-143.
- SNYDER, J. O. 1904. A catalogue of the shore fishes collected by the steamer "Albatross" about the Hawaiian Islands in 1902. *Bull. U. S. Fish. Comm.* 22: 513-538.
- SNYDER, J. O. 1908. Descriptions of eighteen new species and two new genera of fishes from Japan and Riu Kiu Islands. *Proc. U. S. Natl. Mus.* 35: 93-111.
- SNYDER, J. O. 1909. Descriptions of new genera and species of fishes from Japan and Riu Kiu Islands. *Proc. U. S. Natl. Mus.* 36: 597-610.
- SPIX, J. B. von & L. AGASSIZ. 1829-31. *Selecta genera and species piscium quos in itinere per Brasilian annos MDCCCXVII-MDCCCXX jussus et auspicii Maximiliani Josephi I... Monachii*. Fascicule I: xvii +82 pp (1829) Fascicule II: 83-138 (1831).
- SPRINGER, V. G. & J.E. RANDALL. 1974. Two new species of labrid fish genus *Cirrhilabrus* from the Red Sea. *Isr. J. Zool.* 23: 45-54.
- STARKS, E. C. 1913. The fishes of the Stanford expedition to Brazil. *Stanford Univ. Publ. Univ. Ser.* 1-77.
- STEINDACHNER, F. 1861. Ichthyologische Mittheilungen (II) *Verh. Zool.-Bot. Ges. Wien* 11: 133-144.
- STEINDACHNER, F. 1863a. Ichthyologische Mittheilungen (V) *Verh. Zool.-Bot. Ges. Wien* 13: 1111-1114.
- STEINDACHNER, F. 1863b. Ichthyologische Mittheilungen



- (VI) *Verh. Zool.-Bot. Ges. Wien* 13: 1189-1192.
- STEINDACHNER, F. 1864. Ichthyologische Notizen (I) *Sitzungsber. Math.-Naturwiss. Classe K. Akad. Wiss. Wien* 49(1): 200-214.
- STEINDACHNER, F. 1866a. Ichthyologische Mittheilungen (VIII) *Verh. Zool.-Bot. Ges. Wien* 16: 475-484.
- STEINDACHNER, F. 1866b. Zur Fischfauna von Port Jackson in Australien. *Sitzungsber. Akad. Wiss. Wien* 53: 424-480.
- STEINDACHNER, F. 1866c. Ichthyologische Notizen. *Anzeiger K. Akad. Wiss. Math.-Naturwiss. Cl.* 1 (5): 37-38.
- STEINDACHNER, F. 1866d. Über die Fische von Port Jackson in Australien. *Anzeiger K. Akad. Wiss. Math.-Naturwiss. Cl.* 3 (7): 50-54.
- STEINDACHNER, F. 1867a. Ichthyologische Notizen (IV) *Sitzungsber. Akad. Wiss. Wien* 55: 517-534.
- STEINDACHNER, F. 1867b. Ueber einige neue und seltsame Meeresfische aus China. *Sitzungsber. Math.-Naturwiss. Classe K. Akad. Wiss. Wien* 55 (4-5): 585-592.
- STEINDACHNER, F. 1867c. Ichthyologische Notizen (VI) *Sitzungsber. Akad. Wiss. Wien* 56: 307-376.
- STEINDACHNER, F. 1867d. Ichthyologische Notizen, vierte Folge. *Anzeiger K. Akad. Wiss. Math.-Naturwiss. Cl.* 4 (8): 63-64.
- STEINDACHNER, F. 1869. Eine Abhandlung über neue oder seltene Fische des Wiener-Museums. *Anz. Akad. Wiss. Wien* 6 (16): 125-126.
- STEINDACHNER, F. 1870. Bericht über eine Sammlung von Fischen aus Singapore. *Sitzungsber. Akad. Wiss. Wien* 60: 567-571.
- STEINDACHNER, F. 1875. Ichthyologische Beiträge (II) I. Die Fische von Juan Fernandez in den Sammlungen des Wiener Museums. II. Über einige neue Fischarten von der Ost- und Westküste Süd-Amerikas. *Sitzungsber. Akad. Wiss. Wien* 71: 443-480.
- STEINDACHNER, F. 1878. Ichthyologische Beiträge (VI) *Sitzungsber. Akad. Wiss. Wien* 77: 379-392.
- STEINDACHNER, F. 1879. Über einige neue seltene Fischarten aus den K. K. Zoologischen Museum zu Wien, Stuttgart und Warschau. *Anz. Akad. Wiss. Wien* 16 (4): 29-34.
- STEINDACHNER, F. 1881. Beiträge zur Kenntnis der Meeresfische Afrikas's und Beschreibung einer neuen *Sargus*-Art von den Galapagos-Inseln (Abstracts) *Anz. Acad. Wiss. Wien* 18 (16): 157-160.
- STEINDACHNER, F. 1883. Ichthyologische Beiträge (XIII) *Anz. Akad. Wiss. Wien*, 20 (22): 194-197.
- STEINDACHNER, F. 1884. Ichthyologische Beiträge (XIII) I. Beiträge zur Kenntniss der fische Australiens. II. *Caranx africanus* n. sp. III. *Macrones chinensis* n. sp. *Sitzungsber. Akad. Wiss. Wien* 88 (1. Abth.): 1065-1107.
- STEINDACHNER, F. 1887a. Ichthyologische Beiträge (XIV) *Anz. Akad. Wiss. Wien*, 24 (19): 230-231.
- STEINDACHNER, F. 1887b. Ichthyologische Beiträge (XIV). *Sitzungsber. Akad. Wiss. Wien*, 96: 56-68.
- STEINDACHNER, F. 1898a. Über einige neue Fischarten aus dem Rothen Meere. *Anz. Akad. Wiss. Wien* 35 (19): 198-200.
- STEINDACHNER, F. 1898b. Über einige neue Fischarten aus dem Rothen Meere, gesammelt während der I. und II. österreichischen Expedition nach dem Rothen Meere in den Jahren 1895-1896 und 1897-1898. *Sitzungsber. Akad. Wiss. Wien* 107: 780-788.
- STEINDACHNER, F. 1900. Fische aus dem Stillen Ocean. Ergebnisse einer Reise nach dem Pacific (Schauinsland, 1896-1897) *Anz. Akad. Wiss. Wien* 16: 174-178.
- STEINDACHNER, F. 1901. Fische aus dem Stillen Ocean. Ergebnisse einer Reise nach dem Pacific (Schauinsland 1896-1897) *Denkschr. Akad. Wiss. Wien* 70: 316-318; 483-522.
- STEINDACHNER, F. 1902. Wissenschaftliche Ergebnisse der südarabischen Expedition in den Jahren 1898 bis 1899. Fische von Südarabien und Socotra. *Anz. Akad. Wiss. Wien* 39 (24): 316-318.
- STEINDACHNER, F. 1903. Fische aus Südarabien und Socotra. *Denkschr. Akad. Wiss. Wien* 71: 123-168 [Dated as Nov. 1902, published in 1903].
- STEINDACHNER, F. & L. DÖDERLEIN. 1887. Beiträge zur Kenntnis der Fische Japan's. (IV) *Denkschr. Akad. Wiss. Wien* 53: 257-296.
- STIASNY, M. L. J. & J. S. JENSEN. 1987. Labroid interrelationships revisited: morphological complexity, key innovations, and the study of comparative diversity. *Bull. Mus. Comp. Zool.* 151: 269-319.
- STREETS, T.H. 1877. Ichthyology. In: Contribution to the natural history of the Hawaiian and Fanning Islands and Lower California, made in connection with the United States North Pacific surveying expedition, 1873-75. *Bull. U. S. Natl. Mus.* 7: 43-102.
- SVETOVIDOV, A. N. 1964. Ribí Chernogo Morya. [The fishes of the Black Sea]. *Opred Faune SSSR*, 86: pp. 1-552, fig. 1-191 (in Russian).
- SWAINSON, W. 1839. The natural history and classification of fishes, amphibian, & reptiles. London, vol. 2: vi + 448.
- SWAIN, J. 1883. An identification of the species of fishes described by Shaw. General Zoology. *Proc. Acad. Nat. Sci. Phila.* 1882: 303-309.
- TANAKA, S. 1908. Notes on some Japanese fishes, with descriptions of fourteen new species. *J. Coll. Sci. Imp. Univ. Tokyo* 23(7): 1-54.
- TANAKA, S. 1918. Figures and descriptions of the fishes of Japan, including Riukiu Islands, Bonin Islands, Formosa, Kurili Islands, Korea, and southern Sakhalin. Vols. 27-29: 475-538.
- TANAKA, S. 1930. Figures and descriptions of the fishes of Japan. Vols. 46-47: 903-944.
- TEMMINCK, C. J. & H. SCHLEGEL. 1842-50. *Pisces*. In: *Fauna Japonica, sive descriptio animalium quae in itinere per Japoniam suscepto annis 1823-30 collegit, notis observationibus et adumbrationibus illustravit P. F. von Siebold*. Lugduni Batavorum, Batavia. Part 7-9 (1845): 113-172; Part 10-14 (1846): 173-269.
- THIOLLIÈRE, V.J. 1857. ["Le membre de la Commission de publication chargé de la révision de l'ichthyologie de Woodlark, en l'absence de l'auteur"] Essai faune de l'île de Woodlark ou Moïou, par le P. Montrouzier, Lyon, 1857: 138-222.
- THOMPSON, W. 1837. Notes relating to the natural history of Ireland, with a description of a new Genus of Fishes (*Echiodon*) *Proc. Zool. Soc. London* 1837: 52-66.
- THOMPSON, G. M. 1892. Notes on sea fishes. *Trans. Proc. N. Zeal. Inst.* [1891], 24: 202-215.
- TORTONESE, P. 1970. Fam. Labridae. pp. 188-224. In: *Osteichthyes, Pesci ossei (Parte Seconda) Fauna d'Italia*, Edizioni Calderini. Bologna.
- TROSCHEL, F. H. 1866. Ein Beitrag zur Ichthyologischen Fauna der Inseln des Grünen Vorgebirges. *Arch. Naturgeschichte* 22: 190-239.
- VAILLANT L. L. & H. E. SAUVAGE. 1875. Notes sur quelques espèces nouvelles de poissons des îles Sandwich. *Rev. Mag. Zool.* (Ser. 3) 3: 278-287.
- VALENCIENNES, A. 1837-44. Ichthyologie des îles Canaries, ou histoire naturelle des poissons rapportée par MM. Webb et Berthelot, 109 p. In: Webb P.B. & S. Berthelot. Histoire naturelle des îles Canaries. Paris, 1835-1850. Ichthyol. Canaries, vol. 2(part 2): 9-96.
- VALENCIENNES, A. 1846. Table + Ichthyologie Pls. 1-10. In: A. du Petit-Thouars. Atlas de Zoologie. Voyage autour du monde sur la frégate "Venus" pendant les années 1836-1839.
- VALENCIENNES, A. 1855. Ichthyologie. pp 297-351, In: A. du Petit-Thouars. Voyage autour du monde sur la frégate "la Venus" pendant les années 1836-39. Zoology. Paris.
- VASILIU, G. D. 1931. Beschreibung der Ceylon fische aus der



- Sammlung Plate. *Jena Z. Naturw.* 65: 319-360.
- VENKATARAMANUJAM, K., VENKATARAMANI, V. K. & N. RAMANATHAN. 1987. A new labrid fish *Xirichthys rajagopalani* sp. nov. from Tuticorin Bay, South India. *J. Mar. Biol. Ass. India* 24(1-2): 47-49.
- VICTOR, B.C. & G.M. WELLINGTON. (In press). A review of the razorfishes (Perciformes: Labridae) of the eastern Pacific Ocean. In, Systematics of tropical eastern Pacific fishes (D.R. Roberson & P.A. Hastings, eds). *Rev. Biol. Trop.*
- VON BONDE, C. 1934. A collection of marine fishes from Zanzibar. *Ann. Natal Mus. P'mburg* 7: 435-458.
- WAITE, E. R. 1901. Notes on fishes from Western Australia, No. 1. *Rec. Aust. Mus.* 4: 41.
- WAITE, E. R. 1905. Notes on fishes from Western Australia, No. 3. *Rec. Aust. Mus.* 6: 55-82.
- WAITE, E. R. 1910. Additions to the fish fauna of New Zealand. *Trans. Proc. N. Zeal. Inst.* 1910: 25-26.
- WALBAUM, J. J. 1792. *Petri Artedi Sueci Genera Piscium. In quibus systema totum ichthyologiae proponitur cum classibus, ordinibus, generum characteribus, specierum differentiis, observationibus plurimis. Redactis speciebus 242 ad genera 52. Ichthyologiae, Pars III.* 1-723, pls 1-3.
- WANG, K.F. 1941. The labroid fishes of Hainan. *Contrib. Biol. Lab. Sci. Soc. China Nanking (Zool. Ser.)* 15(6): 87-119.
- WASS, R. C. 1984. An annotated checklist of the fishes of Samoa. *NOAA Tech. Rep. SSRF-781*: 1-43.
- WEBER, M. 1913. *Die Fische der Siboga-Expedition.* E.J. Brill, Leiden; xii + 710 pp.
- WELLINGTON, G.M. 1992. *Xyrichtys victori*, a new species of razorfish from the Galápagos Islands (Teleostei: Labrislandae) *Copeia* 1992(4): 1053-1059.
- WELLINGTON, G. M., G. R. ALLEN & D. R. ROBERTSON. 1994. *Xyrichtys perlas* (Labrislandae), a new species of razorfish from the tropical eastern Pacific. *Revue fr. Aquariol.* 21(1-2): 49-52.
- WESTNEAT, M.W. 1993. Phylogenetic relationships of the tribe cheilini (Labrislandae: Perciformes) *Bull. Mar. Sci.* 52: 351-394.
- WHEELER, A. 1991. The Linnean fish collection in the Zoological Museum of the University of Uppsala. *Zool. J. Linn. Soc.* 103: 145-195.
- WHITE, J. 1790. *Journal of a voyage to New South Wales.* Debrett, London; xvii + 299 pp.
- WHITLEY, G. P. 1930. Five new generic names for Australian fishes. *Aust. Zool.* 6: 250-251.
- WHITLEY, G. P. 1931a. New names for Australian fishes. *Aust. Zool.* 6: 310-334.
- WHITLEY, G. P. 1931b. Studies in Ichthyology. No. 4. *Rec. West. Aust. Mus.* 18: 96-133.
- WHITLEY, G. P. 1933. Studies in Ichthyology. No. 7. *Rec. West. Aust. Mus.* 19: 60-112.
- WHITLEY, G. P. 1941. Ichthyological notes and illustrations. *Aust. Zool.* 10: 1-50.
- WHITLEY, G. P. 1945. New sharks and fishes from Western Australia. *Aust. Zool.* 11: 1-42.
- WHITLEY, G. P. 1947. New sharks and fishes from Western Australia. *Aust. Zool.* 11: 129-150.
- WHITLEY, G. P. 1955. SIslandelights on New Zealand ichthyology. *Aust. Zool.* 12: 110-119.
- WHITLEY, G. P. 1956. Ichthyological notes. *Aust. Zool.* 12: 251-261.
- WHITLEY, G. P. 1958. Descriptions and records of fishes. *Proc. Linn. Soc. N. S. W.* 1956-57: 28-51.
- WHITLEY, G. P. 1959. More ichthyological snippets. *Proc. Linn. Soc. N. S. W.* 1957-58 [1959]: 11-26.
- WILSON, C. 1916. Some marine fishes from Columbia and Ecuador. *Ann. Carnegie Mus. Pittsburg* 10: 57-70.
- WINTERBOTTOM, R., A.R. EMERY & E. HOLM. 1987. An annotated checklist of the fishes of the Chagos Archipelago, Central Indian Ocean. *Roy. Ontario Mus. Life Sci. Contr.* 145: 1-226.
- WUITNER, E. 1936. Collection de poissons de mer pêchez vers 1870 a l'Île de la Réunion (Mer des Indes) offerte par le baron VIslandal de Léry. *Ann. Ass. Naturalistes Levallois-Perret* 22 [1935]: 59-76.
- YU, M. J. 1968. The labrisland fishes of Taiwan. *Tunghai Univ. Biol. Bull.* 30: 1-137.
- ZOUIEW, B. 1782. *Descriptio piscis non descripti, qui pertinet ad genus Scarorum Forskalii.* *Acta Acad. Petropol.* 1 [1779]: 229-232.



**SERIAL PUBLICATIONS  
OF  
THE J L B SMITH INSTITUTE OF ICHTHYOLOGY**

The Institute publishes original research on fish systematics, ecology, biology and conservation of fishes. Manuscripts of ancillary subjects (aquaculture, fishery biology, historical ichthyology and archaeology pertaining to fishes) will be considered subject to the availability of publications funds. Three series are produced at irregular intervals: the *Special Publication* series, the *Ichthyological Bulletin* series and the *Ichthyological Monographs* series.

Acceptance of manuscripts for publication is subject to the approval of reviewers from outside the Institute. Priority is given to papers by staff of the Institute, but manuscripts from outside the Institute will be considered if they are pertinent to the work of the Institute. Colour illustrations can be printed at the expense of the author. Fifty free copies of the publication will be supplied to the author or senior author. Additional reprints may be ordered at cost price.

Publications of the Institute are available by subscription or in exchange for publications of other institutions. Lists of the Institute's publications are available from the Publication Secretary at the address below. Recent publications are also available on the internet at <http://www.bioline.bdt.org.br/fb>

**INSTRUCTIONS TO AUTHORS**

Manuscripts shorter than 30 pages will generally be published in the *Special Publications* series; longer papers will be considered for the *Ichthyological Bulletin* or *Ichthyological Monographs* series. Please follow the layout and format of a recent *Bulletin* or *Special Publication*. The typescript must be double-spaced throughout with 25 mm margins all round; two copies must be submitted to the Editor. Each table or figure should be on a separate page and numbered with an Arabic numeral (not in sequence with text pages). All maps, graphs, charts, drawings and photographs should be numbered as figures. If two or more illustrations are grouped as one figure, they must be trimmed and spaced (but not mounted) as intended for final reproduction. Each part of a composite figure must be labelled with a capital letter. Illustrations larger than 21 x 30 cm should be avoided. Legends for figures should be on a separate page. A computer diskette, with the text in RTF, MSWord or Corel WordPerfect format, will expedite publication of the manuscript.

**STYLE OF THE HOUSE**

Hyphens: Certain substantive compounds are hyphenated: gill-raker, soft-ray, type-species, type-locality, type-series, type-specimen. Other words often used together are not hyphenated unless they are used in adjectival expressions before a noun: anal fin / anal-fin rays; lateral line / lateral-line scales; gill arch / gill-arch filaments, etc.

Word usage: Although the following word pairs are often used interchangeably, we believe that consistent use of the first word as a noun and the second as an adjective will improve the precision of our writing: mucus / mucous; maxilla / maxillary; opercle / opercular, operculum / opercular. The operculum (= gill cover) comprises (usually) four separate bones: opercle, subopercle, preopercle and interopercle. The words preoperculum, suboperculum and interoperculum are unnecessary substitutes and not to be used for preopercle, subopercle and interopercle. The plural of operculum is opercula.

Decimal comma versus decimal point: Contrary to most journals published in South Africa and some European countries, we will not use a comma in place of a decimal point. Most computers do not read a comma as a decimal point. In addition, it is common in ichthyological papers to give sequences of measurements that include decimal numbers, with each measurement separated by a comma. If the comma is used to separate items in a series, as well as being used to indicate a decimal number, it will cause considerable confusion.

Fin formulae: Fin formulae will be designated as follows: D XII,10-12 indicates one continuous fin with 12 spines and 10-12 soft (segmented) rays; DX/I,10-12 indicates a fin divided to the base in front of the last spine; and D X+I,12 indicates two separate dorsal fins, the first with 10 spines and the second with 1 spine and 12 soft rays. If it is necessary to differentiate branched and unbranched soft-rays, lower-case Roman numerals will be used for unbranched rays and Arabic numerals for branched rays, e.g. P iii,8. Principal caudal-fin rays are defined as those that touch the hypural bones. The number of principal caudal rays is usually the number of branched rays plus two. If the principal caudal rays are in two separate groups, the number of rays in the dorsal group is given first: thus, "principal caudal rays 8+7" means that there are 15 principal caudal rays, with 8 rays in the dorsal group and 7 in the ventral group.

Abbreviations: Abbreviations usually end with a full stop: et al., e.g., etc., n.b., (note: these commonly used abbreviations of Latin words are not italicized). Dr (Doctor), Mr (Mister), Ms, Id (Island), Ids (Islands) and compass directions (north, west, northwest, etc.) are abbreviated using capital letters without full stops: N, W, NW. We recommend the following abbreviations for ichthyological terms: SL - standard length, TL - total length, FL - fork length, GR - gill-rakers, LL - lateral line.

P.C. Heemstra, Editor

L-A. Fargher, Layout and production

J.L.B. Smith Institute of Ichthyology, Private Bag 1015, Grahamstown 6140, South Africa.